

**Report To:**

Connecticut Pharmaceutical Solutions

Attn: Rino Ferrarese, Ryan Picard& Kim Provera

47 Lower Main St

Portland CT 06480

Date Received: **08/26/2019**Date Tested: **08/26/2019**Laboratory Report#: **NCPS090319-02**Report Date: **09/03/2019**E-Mail: rino.ferrarese@ctpharma.comryan.picard@ctpharma.comkim.provo@ctpharma.com

<u>Sample Site:</u>	CONNECTICUT PHARMACEUTICAL SOLUTIONS • 47 LOWER MAIN STREET, PORTLAND CT		
<u>Date Collected:</u>	08/26/2019 10:00	Collected by: CA of NELabs	
<u>Laboratory ID #:</u>	<u>1978652-03</u>		
<u>Product Description:</u>	LMS 041619		

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Recommended Limits *</u>	
Total Aerobic Microbial Count	800	per gram	PASS	100,000
Total Yeast & Mold Count	1,500	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 samples submitted to Northeast Laboratories, Inc. on: 08/26/2019

Approved By:

Alan C. Johnson, Laboratory Director

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Attn: *Rino Ferrarese, Ryan Picard*& *Kim Provera & Nancy Poltrack*

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HEAVY METALS:				
Parameter	Result	Units		Limits
Arsenic, Total	<0.0005	µg/kg BW/day	PASS	<0.14
Cadmium, Total	<0.007	µg/kg BW/day	PASS	<0.09
Lead, Total	<0.25	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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<u>Date Collected:</u>	08/30/2019 10:00	Collected by: CA of NELabs	
<u>Laboratory ID #:</u>	<u>1979733-04</u>		
<u>Product Description:</u>	LMS 041619		

EXPANDED TERPENES (% Dry Weight)	Result	Units
a-pinene	---	%
camphene	---	%
b-pinene	<0.1	%
b-myrcene	0.19	%
3-carene	---	%
a-terpinene	---	%
p-cymene	---	%
limonene	0.29	%
ocimene	---	%
y-terpinene	---	%
terpinolene	---	%
linalool	0.28	%
(-)-isopulegol	---	%
geraniol	---	%
b-caryophyllene	0.67	%
humulene	0.21	%
cis-nerolidol	---	%
trans-nerolidol	0.13	%
guaial	---	%
a-bisabolol	<0.1	%

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

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Northeast Laboratories, Inc. 129 Mill Street Berlin, CT 06037 www.nelabsct.com

Telephone: 860-828-9787 Toll Free (In State) 800-826-0105 (Out of State) 800-654-1230 Fax: 860-829-1050

CT Cert. #PH-0404 EPA Cert. #CT-024 USDA Cert. #0976 FDA Reg. #086650488 DEA Reg.: Federal #RN0281852 + CT #624

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<u>Product Description:</u>	LMS 041619		

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>
CBDV	----	% weight
CBDA	----	% weight
CBGA	1.05	% weight
CBG	----	% weight
CBD	----	% weight
THCV	----	% weight
CBN	0.16	% weight
THC	0.42	% weight
CBL	----	% weight
CBC	----	% weight
THCA	31.31	% weight

METHODS: HPLC**Comments:**

- Results are based on an A- sample submitted to Northeast Laboratories, Inc. on: 08/30/2019

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