

**Report To:**

Connecticut Pharmaceutical Solutions
Attn: Rino Ferrarese, Mark June-Wells
& Kim Provera & Nancy Poltrack
47 Lower Main St
Portland CT 06480

Date Received: 11/30/2016

Date Tested: 11/30/2016

Laboratory Report#: NCPS022817-02

Report Date: 02/28/2017

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<u>Sample Site:</u>	CONNECTICUT PHARMACEUTICAL SOLUTIONS • 47 LOWER MAIN STREET, PORTLAND CT		
<u>Date Collected:</u>	11/30/2016 14:00	Collected by: CA of NELabs	
<u>Laboratory ID #:</u>	<u>1668149 – 02</u>		
<u>Product Description:</u>	<u>PM 0024</u> (derived as follows : PM0023 ← PD0014 ← C0112 ← LMS0621616/062816)		

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Recommended Limits *</u>	
Total Aerobic Microbial Count	500	per gram	PASS	100,000
Total Yeast & Mold Count	3,100	per gram	PASS	10,000
Bile Tolerant Gram Negative Bacteria	500	per gram	PASS	1,000
Coliform	150	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: 11/30/2016

Approved By:

Alan C. Johnson, Laboratory Director

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

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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>Date Collected:</u>	11/21/2016 15:00	Collected by: CA of NELabs	
<u>Laboratory ID #:</u>	<u>1668067 – 27</u>		
<u>Product Description:</u>	<u>PM 0024</u> (derived as follows : PM0023 ← PD0014 ← C0112 ← LMS0621616/062816)		

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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	(derived as follows : PM0023 ← PD0014 ← C0112 ← LMS0621616/062816)		

EXPANDED TERPENES (% Dry Weight)	Result	Units
a-pinene	---	%
camphene	---	%
sabinene	---	%
b-pinene	---	%
b-myrcene	0.28	%
a-phellandrene	---	%
3-carene	---	%
a-terpinene	---	%
limonene	0.12	%
eucalyptol	---	%
ocimene	0.11	%
b-terpinene	---	%
terpineol	---	%
terpinolene	0.30	%
linalool	0.18	%
(+)-fenchone	---	%
L(-)-fenchone	---	%
fenchol	---	%
(-)-isopulegol	---	%
camphor	---	%
isoborneol	---	%
(-)-borneol	---	%

METHODS: GC, GC/MS

Comments:

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EXPANDED TERPENES (% Dry Weight)	Result	Units
menthol	---	%
geraniol	---	%
nerol	---	%
(+)-pulegol	---	%
trans-b-farnesene	1.58	%
geranyl acetate	---	%
a-cedrene	---	%
b-caryophyllene	0.39	%
b-farnesene	---	%
humulene	0.23	%
a-farnesene	---	%
valencene	----	%
cis-nerolidol	---	%
trans-nerolidol	0.06	%
guaiol	0.16	%
caryophyllene oxide	---	%
cedrol	---	%
b-eudesmol	---	%
a-bisabolol	---	%

METHODS: GC, GC/MS

Comments:

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<u>Product Description:</u>	<u>PM 0024</u> (derived as follows : PM0023 ← PD0014 ← C0112 ← LMS0621616/062816)		

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
Etoazole	<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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<u>Product Description:</u>	<u>PM 0024</u> (derived as follows : PM0023 ← PD0014 ← C0112 ← LMS0621616/062816)		

<u>MYCOTOXINS</u>			
<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Limits</u>
<u>Method: USP 561-II</u>			
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
<u>Method: USP 561-II (Mod)</u>			
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>Date Collected:</u>	02/21/2017 10:30	Collected by: CA of NELabs	
<u>Laboratory ID #:</u>	<u>1769022 – 14</u>		
<u>Product Description:</u>	<u>PM 0024</u> (derived as follows : PM0023 ← PD0014 ← C0112 ← LMS0621616/062816)		

<u>CANNABINOIDS (% weight)</u>	<u>Result</u>	<u>Units</u>
CBDV	----	% weight
CBDA	----	% weight
CBGA	----	% weight
CBG	----	% weight
CBD	----	% weight
THCV	0.07	% weight
CBN	0.02	% weight
d9-THC	7.77	% weight
d8-THC	----	% weight
CBL	----	% weight
CBC	0.18	% weight
THCA	----	% weight

METHODS: HPLC

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