



Report To:
Connecticut Pharmaceutical Solutions
Rino Ferrarese & Mark June-Wells, Ph.D.
& Kim Provera & Nancy Poltrack
47 Lower Main St
Portland CT 06480

Date Received: 05/17/2016
Date Tested: 05/18/2016

Laboratory Report#: N1666041 – 10
1st Email Report via C.Appell: 05/19/2016

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& npoltrack@ctpharma.com

Report Date: 05/20/2016

Sample Site:	CONNECTICUT PHARMACEUTICAL SOLUTIONS • 47 LOWER MAIN STREET, PORTLAND CT
Date Collected:	05/17/2016 11:00
Collected by:	CA of NELabs
Laboratory ID #:	1666041 – 10
Product Description:	# LMS Kief 122315/010716

<u>CANNABINOIDS (% weight)</u>	<u>Result</u>	<u>Units</u>
CBDV	----	% weight
CBDA	0.09	% weight
CBGA	1.23	% weight
CBG	0.14	% weight
CBD	----	% weight
THCV	----	% weight
CBN	----	% weight
THC	1.55	% weight
CBC	0.38	% weight
THCA	43.89	% weight

METHODS: HPLC

Comments:

- Results are based on sample/s submitted to Northeast Laboratories, Inc. on: 05/17/2016.

Approved By:

Alan C. Johnson, Laboratory Director

**Report To:**

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

Date Received: 4/01/2016

Date Tested: 4/01/2016
Laboratory Report#: **N1665606 - 01**

Report Date: 4/08/2016

Report Update: 4/11/2016 == page 6 Cannabinoids =
Updated with #LMS122315-D sample
#1665660-22, as rc'd 4/06/2016)

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<u>Sample Site:</u>	CONNECTICUT PHARMACEUTICAL SOLUTIONS • 47 LOWER MAIN STREET, PORTLAND CT		
<u>Date Collected:</u>	4/01/2016 11:30	Collected by: CA of NELabs	
<u>Laboratory ID #:</u>	<u>1665606 – 01</u>		
<u>Product Description:</u>	LMS 122315		

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Recommended Limits *</u>	
Total Aerobic Microbial Count	400	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: 4/01/2016


Approved By: Alan C. Johnson, Laboratory Director

**Report To:**

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

Date Received: 4/01/2016

Date Tested: 4/07 – 4/08/2016
Laboratory Report#: **N1665606 - 01**

Report Date: 4/08/2016

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<u>Sample Site:</u>	CONNECTICUT PHARMACEUTICAL SOLUTIONS • 47 LOWER MAIN STREET, PORTLAND CT		
<u>Date Collected:</u>	4/01/2016 11:30	Collected by: CA of NELabs	
<u>Laboratory ID #:</u>	<u>1665606 – 01</u>		
<u>Product Description:</u>	LMS 122315		

HEAVY METALS:

<u>Parameter</u>	<u>Result</u>	<u>Units</u>		<u>Limits</u>
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:

- Results are based on sample/s submitted to Northeast Laboratories, Inc. on: 4/01/2016

Approved By:

Alan C. Johnson, Laboratory Director

**Report To:**

Connecticut Pharmaceutical Solutions
Attn: *Rino Ferrarese, Mark June-Wells*
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47 Lower Main St
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Date Received: 4/01/2016

Date Tested: 4/05/2016
Laboratory Report#: **N1665606 - 01**

Report Date: 4/08/2016

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<u>Sample Site:</u>	CONNECTICUT PHARMACEUTICAL SOLUTIONS • 47 LOWER MAIN STREET, PORTLAND CT		
<u>Date Collected:</u>	4/01/2016 11:30	Collected by: CA of NELabs	
<u>Laboratory ID #:</u>	<u>1665606 – 01</u>		
<u>Product Description:</u>	LMS 122315		

<u>TERPENE PROFILE</u> <u>(% Dry Weight)</u>	<u>Result</u>	<u>Units</u>
<u>Monoterpenoids</u>		
a-pinene	---	%
b-pinene	---	%
b-myrcene	0.09	%
limonene	0.04	%
ocimene	---	%
terpinolene	---	%
linalool	0.10	%
<u>Sesquiterpenoids</u>		
b-caryophyllene	0.27	%
humulene	0.11	%
trans-nerolidol	---	%
caryophyllene oxide	---	%
b-eudesmol	0.22	%

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

- Results are based on sample/s submitted to Northeast Laboratories, Inc. on: 4/01/2016

Approved By:

Alan C. Johnson, Laboratory Director

**Report To:**

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Date Received: 4/01/2016

Date Tested: 4/05/2016
Laboratory Report#: **N1665606 - 01**

Report Date: 4/08/2016

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<u>Sample Site:</u>	CONNECTICUT PHARMACEUTICAL SOLUTIONS • 47 LOWER MAIN STREET, PORTLAND CT		
<u>Date Collected:</u>	4/01/2016 11:30	Collected by: CA of NELabs	
<u>Laboratory ID #:</u>	<u>1665606 – 01</u>		
<u>Product Description:</u>	LMS 122315		

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
Chloromequat 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:**

- Results are based on sample/s submitted to Northeast Laboratories, Inc. on: 4/01/2016

Approved By:

Alan C. Johnson, Laboratory Director

Northeast Laboratories, Inc. 129 Mill Street Berlin, CT 06037 www.nelabsct.comTelephone: 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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Date Received: 4/01/2016

Date Tested: 4/05/2016
Laboratory Report#: N1665606 - 01

Report Date: 4/08/2016

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<u>Sample Site:</u>	CONNECTICUT PHARMACEUTICAL SOLUTIONS • 47 LOWER MAIN STREET, PORTLAND CT		
<u>Date Collected:</u>	4/01/2016 11:30	Collected by: CA of NELabs	
<u>Laboratory ID #:</u>	<u>1665606 – 01</u>		
<u>Product Description:</u>	<u>LMS 122315</u>		

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:**

- Results are based on sample/s submitted to Northeast Laboratories, Inc. on: 4/01/2016

Approved By:

Alan C. Johnson, Laboratory Director

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

**Report To:**

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

Date Received: 4/26/2016 & 5/03/2016 ★

Date Tested: 4/27/2016 & 5/03/2016 ★

Laboratory Report#: N1665867-01 & #N1665915-04 ★

Report Date: 5/05/2016

Report Update: 5/09/2016 ★

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Sample Site:	CONNECTICUT PHARMACEUTICAL SOLUTIONS • 47 LOWER MAIN STREET, PORTLAND CT		★ = UPDATE: 5/09/2016 page #1 == microbiological parameters = Retest ★
Date Collected:	4/26/2016 11:45	Collected by: CA of NELabs	5/03/2016 11:04 AM
Laboratory ID #:	1665867 - 01		1665915 - 04
Product Description:	LMS 010716		LMS 010716-M (retest)

Parameter	Result	Units		Recommended Limits *
Total Aerobic Microbial Count ★	3,600	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: 4/26/2016 & 5/03/2016 ★

Approved By:

Alan C. Johnson, Laboratory Director

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

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**Report To:**

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

Date Received: 4/26/2016

Date Tested: 5/03/2016 to 5/04/2016
Laboratory Report#: N1665867 - 01

Report Date: 5/05/2016

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<u>Sample Site:</u>	CONNECTICUT PHARMACEUTICAL SOLUTIONS • 47 LOWER MAIN STREET, PORTLAND CT		
<u>Date Collected:</u>	4/26/2016 14:20	Collected by: CA of NELabs	
<u>Laboratory ID #:</u>	<u>1665867 - 01</u>		
<u>Product Description:</u>	LMS 010716		

HEAVY METALS:

<u>Parameter</u>	<u>Result</u>	<u>Units</u>		<u>Limits</u>
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:

- Results are based on sample/s submitted to Northeast Laboratories, Inc. on: 4/26/2016

Approved By:

Alan C. Johnson, Laboratory Director

**Report To:**

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

Date Received: 4/26/2016

Date Tested: 5/03/2016
Laboratory Report#: N1665867 - 01

Report Date: 5/05/2016

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npoltrack@gmail.com

<u>Sample Site:</u>	CONNECTICUT PHARMACEUTICAL SOLUTIONS • 47 LOWER MAIN STREET, PORTLAND CT		
<u>Date Collected:</u>	4/26/2016 14:20	Collected by: CA of NELabs	
<u>Laboratory ID #:</u>	<u>1665867 - 01</u>		
<u>Product Description:</u>	LMS 010716		

<u>TERPENE PROFILE</u> <u>(% Dry Weight)</u>	<u>Result</u>	<u>Units</u>
<u>Monoterpenoids</u>		
a-pinene	---	%
b-pinene	---	%
b-myrcene	0.03	%
limonene	0.02	%
ocimene	---	%
terpinolene	---	%
linalool	---	%
<u>Sesquiterpenoids</u>		
b-caryophyllene	0.81	%
humulene	0.46	%
trans-nerolidol	---	%
caryophyllene oxide	---	%
b-eudesmol	0.81	%

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

- Results are based on sample/s submitted to Northeast Laboratories, Inc. on: 4/26/2016

Approved By:

Alan C. Johnson, Laboratory Director

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**Report To:**

Connecticut Pharmaceutical Solutions
*Attn: Rino Ferrarese, Mark June-Wells
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47 Lower Main St
Portland CT 06480

Date Received: 4/26/2016

Date Tested: 5/02/2016

Laboratory Report#: N1665867 - 01

Report Date: 5/05/2016

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<u>Sample Site:</u>	CONNECTICUT PHARMACEUTICAL SOLUTIONS • 47 LOWER MAIN STREET, PORTLAND CT		
<u>Date Collected:</u>	4/26/2016 14:20	Collected by: CA of NELabs	
<u>Laboratory ID #:</u>	<u>1665867 - 01</u>		
<u>Product Description:</u>	<u>LMS 010716</u>		

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
Chloromequat 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:**

- Results are based on sample/s submitted to Northeast Laboratories, Inc. on: 4/26/2016

Approved By:

Alan C. Johnson, Laboratory Director

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& Kim Provera & Nancy Poltrack*
47 Lower Main St
Portland CT 06480

Date Received: 4/26/2016

Date Tested: 4/29/2016
Laboratory Report#: N1665867 - 01

Report Date: 5/05/2016

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<u>Sample Site:</u>	CONNECTICUT PHARMACEUTICAL SOLUTIONS • 47 LOWER MAIN STREET, PORTLAND CT		
<u>Date Collected:</u>	4/26/2016 14:20	Collected by: CA of NELabs	
<u>Laboratory ID #:</u>	<u>1665867 – 01</u>		
<u>Product Description:</u>	<u>LMS 010716</u>		

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:**

- Results are based on sample/s submitted to Northeast Laboratories, Inc. on: 4/26/2016

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Alan C. Johnson, Laboratory Director

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