

**Report To:**

Connecticut Pharmaceutical Solutions
Rino Ferrarese & Mark June-Wells, Ph.D.
Kim Provera & Nancy Polltrack
 47 Lower Main St

Date Received: 5/03/2016

Date Tested: 5/04/2016 + retest: 5/09/2016

Laboratory Report#: N1665915-01
 + retest #N1666959 – 21

1st Email Report via C.Appell: 5/05/2016 + 5/10/2016

Portland CT 06480

COA Report Date: 5/12/2016 ★

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npoltrack@gmail.com

Sample Site:	CONNECTICUT PHARMACEUTICAL SOLUTIONS • 47 LOWER MAIN STREET, PORTLAND CT	
Date Collected:	5/05/2016 14:40	Collected By: CA of NELabs
Laboratory ID #:	1665915 – 01 with Cannabinoids Retest #1665959 – 21 ★	
Product Description:	OC0040 ★ = which is a designated number change from #C0070 for tracking purposes = per M.June-Well's 5/10/2016 email instructions	

★ = Note: Per Mark June-Well's 5/10/2016 email, product #OC0040's pedigree is(e.g. was made from):

C0070 = per NELabs' Report #N1665915 - 01 = which was received for Cannabinoids, Terpenes, Density and Residual Solvents analysis on 5/03/2016 ...

- Cannabinoids were tested by C.Appell on 5/04/2016, with results 1st emailed by C.Appell on 5/05/2016
 - 1) Subsequently the in-lab #C0070 sample was RETESTED by C.Appell on 5/09/2016 and reported via Report #1665959 – 21 == with results emailed by C.Appell on 5/10/2016 == see Cannabinoids results below...
- Terpenes for #N1665915 – 01 were tested by C.Appell on 5/04/2016; see Terpenes results on page 2;
- Density & Residual Solvents for #1665915 – 01 were tested by C. Appell on 5/04/2016; see results on page 3;

LMS122315 = Full Range Tests per NELabs' Report #N1665606 - 01, as received 4/01/2016

- with Cannabinoids results 1st reported based on NELabs' Report #N1665606-01, as received 4/01/2016 and tested by C.Appell on 4/05/2016;
 - 1) Subsequently, #LMS122315's Cannabinoids were retested by #LMS122315-D = sample #N1665660-22, as received 4/06/2016, tested on 4/07/2016 with results included in the 4/11/2016 Update Report on Page 6 of Rpt#16650606-01.
- The Full Range COA was issued by NELabs on 4/08/2016 for pages 1-5 tested based on the 4/01/2016 sample;
 - but the page 6, Cannabinoids test results were based on the 4/11/2016 Report Update for Sample #N1665660-22.

★ = Sample # OC0040

CANNABINOIDS		
(% weight)	Result	Units
CBDV	----	% weight
CBDA	0.30	% weight
CBGA	1.41	% weight
CBG	0.25	% weight
CBD	----	% weight
THCV	----	% weight
CBN	0.09	% weight
THC	22.36	% weight
CBC	0.93	% weight
THCA	66.52	% weight

METHODS: HPLC

Comments: Results are based on sample/s submitted to Northeast Laboratories, Inc. on: 5/03/2016

Approved By:

Alan C. Johnson, Laboratory Director

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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★ = Sample #OC0040

TERPENE PROFILE (% Dry Weight)		Result	Units
Monoterpenoids			
a-pinene	---	---	%
b-pinene	---	---	%
b-myrcene	---	---	%
limonene	---	---	%
ocimene	---	---	%
terpinolene	---	---	%
linalool	---	---	%
Sesquiterpenoids			
b-caryophyllene	0.29	---	%
humulene	0.16	---	%
trans-nerolidol	---	---	%
caryophyllene oxide	---	---	%
b-eudesmol	---	---	%

METHODS: GC, GC/MS

Comments: Results are based on sample/s submitted to Northeast Laboratories, Inc. on: 5/03/2016

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★ = Sample #OC0040

	Result	Units	Method
DENSITY	1.0372	g/cm ³ @ 20°C	Gravimetric

★ = Sample #OC0040

	Result	Units	Method
RESIDUAL SOLVENTS (ETOH – Alcohol)	3.08	%	Headspace GC

Comments: Results are based on sample/s submitted to Northeast Laboratories, Inc. on: 5/03/2016

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**Report To:**

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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


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

Report Date: 4/08/2016

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<u>Product Description:</u>	LMS 122315		

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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<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
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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<u>Product Description:</u>	LMS 122315		

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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