

**Report To:**

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

Date Received: 4/26/2016

Date Tested: 4/27/2016

Laboratory Report#: N1665867 - 04
 1st Email Report via C.Appell: 4/28/2016

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COA Report Date: 5/05/2016 ★

Sample Site:	CONNECTICUT PHARMACEUTICAL SOLUTIONS • 47 LOWER MAIN STREET, PORTLAND CT	
Date Collected:	4/26/2016 11:45	Collected By: CA of NELabs
Laboratory ID #:	1665867 - 04	
Product Description:	OC0039 ★ = which is a designated number change from #C0069 for tracking purposes = per M.June-Well's 5/02/2016 email instructions	

★ = Note: Per Mark June-Well's 5/02/2016 email, product #OC0039's pedigree is (e.g. was made from):

- C0069 = per NELabs' Report #N1665867 – 04 = was received for Cannabinoids, Terpenes, Density and Residual Solvents analysis on 4/26/2016 ...
 - Cannabinoids were tested by C.Appell on 4/27/2016, with results 1st emailed by C.Appell on 4/28/2016 = see results below;
 - Terpenes were tested by C.Appell on 5/03/2016; see Terpenes results on page 2;
 - Density & Residual Solvents were tested by C. Appell on 4/27/2016; see results on page 3;
- STK 120415 Full Range Tests per NELabs' Report #N166538 – 02 , as received 4/13/2016 (* and 4/18/2016)
 - * = with Cannabinoids results reported based on NELabs' Report #N1665755-01, as received 4/18/2016 and tested by C.Appell on 4/18/2016)
- The Full Range COA was issued by NELabs on 4/21/2016 == pages 1-5 tested based on the 4/13/2016 sample;
 - but page 6, Cannabinoids test results, based on the sample received and tested 4/18/2016.

★ = Sample # OC0039

CANNABINOIDS		
(% weight)	Result	Units
CBDV	----	% weight
CBDA	0.29	% weight
CBGA	1.57	% weight
CBG	0.42	% weight
CBD	----	% weight
THCV	----	% weight
CBN	0.07	% weight
THC	25.11	% weight
CBC	0.22	% weight
THCA	60.60	% weight

METHODS: HPLC

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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TERPENE PROFILE (% Dry Weight)		Result	Units
Monoterpenoids			
a-pinene	---		%
b-pinene	---		%
b-myrcene	---		%
limonene	---		%
ocimene	---		%
terpinolene	---		%
linalool	---		%
Sesquiterpenoids			
b-caryophyllene	0.33		%
humulene	0.13		%
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: 4/26/2016

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 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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★ = Sample #OC0039

	Result	Units	Method
<u>DENSITY</u>	1.0630	g/cm ³ @ 20°C	Gravimetric

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	Result	Units	Method
<u>RESIDUAL SOLVENTS (ETOH – Alcohol)</u>	1.49	%	Headspace GC

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<u>Sample Site:</u>	CONNECTICUT PHARMACEUTICAL SOLUTIONS • 47 LOWER MAIN STREET, PORTLAND CT		
<u>Date Collected:</u>	4/13/2016 14:20	Collected by: CA of NELabs	
<u>Laboratory ID #:</u>	<u>1665738 – 02</u>		
<u>Product Description:</u>	STK 120415		

<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:

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<u>Product Description:</u>	STK 120415		

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>	STK 120415		

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>	STK 120415		

MYCOTOXINS			
Parameter	Result	Units	Limits
<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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