

**Report To:**

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

Date Received: 4/21/2016

Date Tested: 4/22/2016

Laboratory Report#: N1665825 - 03
1st Email Report via C.Appell: 4/22/2016

E-Mail: rino.ferrarese@ctpharma.com
mark.june.wells@ctpharma.com
kim.provera@ctpharma.com
npoltrack@gmail.com

COA Report Date: 5/05/2016 ★

Sample Site:	CONNECTICUT PHARMACEUTICAL SOLUTIONS • 47 LOWER MAIN STREET, PORTLAND CT	
Date Collected:	4/21/2016 11:15	Collected By: CA of NELabs
Laboratory ID #:	1665825 - 03	
Product Description:	OC0038 ★ = which is a designated number change from #C0068 for tracking purposes = per M.June-Well's 4/26/2016 email instructions	

★ = Note: Per Mark June-Well's 4/26/2016 + 5/02/2016 emails, product #OC0038's pedigree is (e.g. was made from):

- C0068 = per NELabs' Report #N1665825 - 03 = was received for Cannabinoids, Terpenes, Density and Residual Solvents analysis on 4/21/2016; tested 4/22/2016...
 - Cannabinoids results were 1st emailed by C.Appell on 4/22/2016 = see Cannabinoids results below;
 - Terpenes results were tested by C.Appell on 4/22/2016; see Terpenes results on page 2;
 - Density & Residual Solvents were tested by C. Appell on 4/22/2016; 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 # OC0038= tested 4/22/2016

CANNABINOIDS		
(% weight)	Result	Units
CBDV	—	% weight
CBDA	0.29	% weight
CBGA	1.12	% weight
CBG	0.87	% weight
CBD	—	% weight
THCV	0.25	% weight
CBN	0.14	% weight
THC	47.56	% weight
CBC	0.56	% weight
THCA	32.48	% weight

METHODS: HPLC

Comments: Results are based on sample/s submitted to Northeast Laboratories, Inc. on: 4/21/2016

Approved By:

Alan C. Johnson, Laboratory Director

**Report To:**

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

Date Received: 4/21/2016

Date Tested: 4/22/2016

Laboratory Report#: N1665825 - 03
 1st Email Report via C.Appell: 4/22/2016

E-Mail: rino.ferrarese@ctpharma.com
mark.june.wells@ctpharma.com
kim.provera@ctpharma.com
npoltrack@gmail.com

COA Report Date: 5/05/2016 ★

Sample Site:	CONNECTICUT PHARMACEUTICAL SOLUTIONS • 47 LOWER MAIN STREET, PORTLAND CT	
Date Collected:	4/21/2016 11:15	Collected By: CA of NELabs
Laboratory ID #:	1665825 - 03	
Product Description:	OC0038 ★ = which is a designated number change from #C0068 for tracking purposes = per M.June-Well's 4/26/2016 email instructions	

★ = Note: Per Mark June-Well's 4/26/2016 + 5/02/2016 emails, product #OC0038's pedigree is (e.g. was made from):

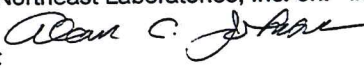
- C0068 = per NELabs' Report #N1665825 - 03 = was received for Cannabinoids, Terpenes, Density and Residual Solvents analysis on 4/21/2016; tested 4/22/2016...
 - Cannabinoids results were 1st emailed by C.Appell on 4/22/2016 = see Cannabinoids results below;
 - Terpenes results were tested by C.Appell on 4/22/2016; see Terpenes results on page 2;
 - Density & Residual Solvents were tested by C. Appell on 4/22/2016; 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 #OC0038

TERPENE PROFILE (% Dry Weight)	Result	Units
<u>Monoterpenoids</u>		
a-pinene	—	%
b-pinene	—	%
b-myrcene	—	%
limonene	—	%
ocimene	—	%
terpinolene	—	%
linalool	—	%
<u>Sesquiterpenoids</u>		
b-caryophyllene	2.68	%
humulene	1.12	%
trans-nerolidol	—	%
caryophyllene oxide	—	%
b-eudesmol	—	%

METHODS: GC, GC/MS

Comments: Results are based on sample/s submitted to Northeast Laboratories, Inc. on: 4/21/2016

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

**Report To:**

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

Date Received: 4/21/2016

Date Tested: 4/22/2016

Laboratory Report#: N1665825 - 03
1st Email Report via C.Appell: 4/22/2016

E-Mail: rino.ferrarese@ctpharma.com
mark.june.wells@ctpharma.com
kim.provera@ctpharma.com
npolltrack@gmail.com

COA Report Date: 5/05/2016 ★

<u>Sample Site:</u>	CONNECTICUT PHARMACEUTICAL SOLUTIONS • 47 LOWER MAIN STREET, PORTLAND CT		
<u>Date Collected:</u>	4/21/2016 11:15	Collected By: CA of NELabs	
<u>Laboratory ID #:</u>	1665825 - 03		
<u>Product Description:</u>	OC0038 ★ = which is a designated number change <u>from #C0068</u> for tracking purposes = per M.June-Well's 4/26/2016 email instructions		

★ = Note: Per Mark June-Well's 4/26/2016 + 5/02/2016 emails, product #OC0038's pedigree is (e.g. was made from):

- C0068 = per NELabs' Report #N1665825 - 03 = was received for Cannabinoids, Terpenes, Density and Residual Solvents analysis on 4/21/2016; tested 4/22/2016...
 - Cannabinoids results were 1st emailed by C.Appell on 4/22/2016 = see Cannabinoids results below;
 - Terpenes results were tested by C.Appell on 4/22/2016; see Terpenes results on page 2;
 - Density & Residual Solvents were tested by C. Appell on 4/22/2016; 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 #OC0038

	Result	Units	Method
<u>DENSITY</u>	0.9666	g/cm ³ @ 20°C	Gravimetric

★ = Sample #OC0038

	Result	Units	Method
<u>RESIDUAL SOLVENTS (ETOH - Alcohol)</u>	1.03	%	Headspace GC

Comments: Results are based on sample/s submitted to Northeast Laboratories, Inc. on: 4/21/2016

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: 4/13/2016

Date Tested: 4/13/2016
Laboratory Report#: N1665738 - 02

Report Date: 4/21/2016

E-Mail: rino.ferrarese@ctpharma.com
mark.june.wells@ctpharma.com
kim.provo@ctpharma.com
npoltrack@gmail.com

<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>	<u>STK 120415</u>		

<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: 4/13/2016

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: 4/13/2016

Date Tested: 4/19/2016 – 4/20/2016
Laboratory Report#: N1665738 - 02

Report Date: 4/21/2016

E-Mail: rino.ferrarese@ctpharma.com
mark.june.wells@ctpharma.com
kim.provo@ctpharma.com
npoltrack@gmail.com

<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>	<u>STK 120415</u>		

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: 4/13/2016

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: 4/13/2016

Date Tested: 4/19/2016
Laboratory Report#: **N1665738 - 02**

Report Date: 4/21/2016

E-Mail: rino.ferrarese@ctpharma.com
mark.june.wells@ctpharma.com
kim.provo@ctpharma.com
npoltrack@gmail.com

<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		

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:

- Results are based on sample/s submitted to Northeast Laboratories, Inc. on: 4/13/2016

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

**Report To:**

Connecticut Pharmaceutical Solutions
Attn: Rino Ferrarese, Mark June-Wells
& Kim Provera & Nancy Poltrack

47 Lower Main St
Portland CT 06480

Date Received: 4/13/2016

Date Tested: 4/19/2016
Laboratory Report#: **N1665738 - 02**

Report Date: 4/21/2016

E-Mail: rino.ferrarese@ctpharma.com
mark.june.wells@ctpharma.com
kim.provo@ctpharma.com
npoltrack@gmail.com

<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		

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:

- Results are based on sample/s submitted to Northeast Laboratories, Inc. on: 4/13/2016

Approved By:

Alan C. Johnson, Laboratory Director