

**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: 4/26/2016

Date Tested: 4/27/2016

Date 1st Emailed by C.Appell: 4/28/2016

Laboratory Report#: N1665867 - 06

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

COA Report Date: 5-2/2016 ★

Sample Site:	CONNECTICUT PHARMACEUTICAL SOLUTIONS	47 LOWER MAIN STREET, PORTLAND CT
Date Collected:	4/26/2016 11:45 AM	Collected By: CA of NELabs
Laboratory ID #:	1665867 - 06	
Product Description:	TN 0017 ★	

★ = Note: Per Mark June-Well's 4/28/2016 email, product #TN 0017's pedigree is (e.g. was made from):

- ★ **TN 0017- = NELabs' Report #N1665867 -06** = sample was received for Cannabinoids analysis on 4/26/2016; tested on 4/27/2016, with results 1st emailed by C.Appell on 4/28/2016 = see Cannabinoids results of #TN 0017 below....
- **D0042 = NELabs' Report #N1665795 - 07** = sample was received for Cannabinoids on 4/19/2016, tested on 4/04/2016 and results 1st emailed by C.Appell on 4/21/2016
 - **C0065 = NELabs' Report #N1665738 - 04** = sample was received for Cannabinoids, Terpenes, Density, and Residual Solvents analysis on 4/13/2016. The Cannabinoids were tested on 4/14/2016, and results were 1st emailed by C.Appell on 4/14/2016.
 - **SOG 100715 / SOG 102315 Full Range Samples**
 - 1) **SOG 100715 = NELabs' Report #N1664766-36 Full Range sample was received 1/05/2016, with subsequent Cannabinoids sample #N1664819-03 received on 1/12/2016**
 - The Cannabinoids subsequent sample #1664819-03 was tested on 1/12/2016, emailed 1st by R.Picard on 1/12/2016; and results included on page #6 of the Full Range Report #1664766-36 / #1664819-03 on 1/13/2016
 - 2) **SOG 100715 (Flower) = NELabs' Report #N1664994-01 Full Range sample was received 1/27/2016**
 - Cannabinoids were tested on 2/02/2016, and results included on page #6 of the Full Range Report #1664994-01 on 2/03/2016

<u>CANNABINOIDS</u>	<u>★ = Sample #TN 0017</u>	
<u>(% weight)</u>	<u>Result</u>	<u>Units</u>
CBDV	----	% weight
CBDA	----	% weight
CBGA	0.02	% weight
CBG	0.06	% weight
CBD	0.02	% weight
THCV	0.02	% weight
CBN	0.05	% weight
THC	4.93	% weight
CBC	0.05	% weight
THCA	0.11	% weight

METHODS: HPLC

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

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

Approved By: _____

Alan C. Johnson, Laboratory Director

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Attn: Rino Ferrarese,Mark June-Wells & Kim Provera

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Date Received: **Pg. 1-5 = 1/05/2016****Pg. 6 = 1/12/2016**Date Tested: **1/05/2016**Laboratory Report#: **N1664766 – 36 (pg 1-5)**
N1664819 – 03 (pg 6)Report Date: **1/13/2016**E-Mail: rino.ferrarese@ctpharma.com
mjunewells@aerlimnology.com
kim.provo@ctpharma.com

Sample Site:	CONNECTICUT PHARMACEUTICAL SOLUTIONS • 47 LOWER MAIN STREET, PORTLAND CT
Date Collected:	1/05/2016 10:35
Collected by:	CA of NELabs
Laboratory ID #:	1664766 – 36
Product Description:	<u>SOG #100715 FLOWER</u>

Parameter	Result	Units	Recommended Limits *
Total Aerobic Microbial Count	<100	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: 1/05/2016

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Date Received: **Pg. 1-5 = 1/05/2016****Pg. 6 = 1/12/2016**Date Tested: **1/11 + 1/12/2016**Laboratory Report#: **N1664766 – 36 (pg 1-5)****N1664819 – 03 (pg 6)**Report Date: **1/13/2016**

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Collected by:	CA of NELabs
Laboratory ID #:	1664766 – 36
Product Description:	<u>SOG #100715 FLOWER</u>

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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Date Tested: 1/11/2016

Laboratory Report#: N1664766 – 36 (pg 1-5)

N1664819 – 03 (pg 6)

Note: 1st Emailed 1/12/2016 by R. Picard

Report Date: 1/13/2016

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TERPENE PROFILE
(% Dry Weight)**Result Units****Monoterpenoids**

a-pinene	---	%
b-pinene	0.06	%
b-myrcene	0.34	%
limonene	0.30	%
ocimene	---	%
terpinolene	0.04	%
linalool	0.05	%

Sesquiterpenoids

b-caryophyllene	0.37	%
humulene	0.09	%
trans-nerolidol	---	%
caryophyllene oxide	---	%
b-eudesmol	0.04	%

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

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