

**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: 2/16/2016

Date Tested: 2/18/2016

Laboratory Report#: N1665152 - 01

1st Email Report via R.Picard: 2/19/2016E-Mail: rino.ferrarese@ctpharma.commjunewells@aerlimnology.comkim.provera@ctpharma.comnpoltrack@gmail.com

COA Report Date: 2/23/2016 ★

<u>Sample Site:</u>	CONNECTICUT PHARMACEUTICAL SOLUTIONS • 47 LOWER MAIN STREET, PORTLAND CT		
<u>Date Collected:</u>	2/16/2016 10:20	Collected By: CA of NELabs	
<u>Laboratory ID #:</u>	<u>1665152 - 01</u>		
<u>Product Description:</u>	OC0030 ★		

★ = Note: Per Mark June-Well's 2/23/2016 email, product #OC0030's pedigree is (e.g. was made from):

- **OC0030** = per NELabs' Report #N1665152-01 was received for Cannabinoids and Terpenes analysis on 2/16/2016, with Cannabinoids tested on 2/18/2016, and Terpenes tested on 2/16/2016, and results were emailed 1st by Ryan Picard on 2/19/2016 == see Cannabinoids result below and Terpenes result on page 2 herein
- **CTS Flower –BatchCTS100715** = Full Range Tests
 - 1) per NELabs' Report #N1664766-37 = sample that was received on 1/05/2016
 - for Microbiological, Metals, Terpenes, Pesticides, Mycotoxins = tested 1/05 thru 1/12/2016 and reported via Pages 1 thru 5 on 1/13/2016 (as updated 1/15/2016);
 - and
 - 2) per NELabs' Report #N1664819-01 = sample that was received on 1/12/2016
 - for Cannabinoids = tested 1/12/2016 and reported via Page 6 on 1/13/2016

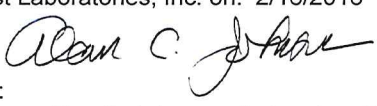
★ = Sample #OC0030 = tested 2/18/2016

CANNABINOIDS		★N1665152-01	
(% weight)		Result	Units
CBDV		----	% weight
CBDA		24.02	% weight
CBGA		0.15	% weight
CBG		0.66	% weight
CBD		6.94	% weight
THCV		----	% weight
CBN		----	% weight
THC		13.97	% weight
CBC		0.70	% weight
THCA		8.27	% weight

METHODS: HPLC

Comments: Results are based on sample/s submitted to Northeast Laboratories, Inc. on: 2/16/2016

Approved By:


 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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 1st Email Report via R.Picard: 2/19/2016

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Laboratory ID #:	1665152 - 01	
Product Description:	OC0030 ★	

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- **OC0030 = per NELabs' Report #N1665152-01** = sample received for Cannabinoids and Terpenes analysis on 2/16/2016, with Cannabinoids tested on 2/18/2016, and Terpenes tested on 2/16/2016, and results were emailed 1st by Ryan Picard on 2/19/2016 == see Cannabinoids result below and Terpenes result on page 2 herein
- **CTS Flower -BatchCTS100715 = Full Range Tests**
 - 1) **per NELabs' Report #N1664766-37** = sample that was received on 1/05/2016
 - for Microbiological, Metals, Terpenes, Pesticides, Mycotoxins = tested 1/05 thru 1/12/2016 and reported via Pages 1 thru 5 on 1/13/2016 (as updated 1/15/2016);
 - and
 - 2) **per NELabs' Report #N1664819-01** = sample that was received on 1/12/2016
 - for Cannabinoids = tested 1/12/2016 and reported via Page 6 on 1/13/2016

★ = Sample #OC0030 = tested 2/16/2016

<u>TERPENE PROFILE</u>		<u>★N1665152 - 01</u>	
<u>(% Dry Weight)</u>	<u>Results</u>	<u>Units</u>	
<u>Monoterpenoids</u>			
a-pinene	0.27	%	
b-pinene	0.13	%	
b-myrcene	0.69	%	
limonene	0.79	%	
ocimene	---	%	
terpinolene	0.82	%	
linalool	2.40	%	
<u>Sesquiterpenoids</u>			
b-caryophyllene	5.03	%	
humulene	2.53	%	
trans-nerolidol	---	%	
caryophyllene oxide	0.34	%	
b-eudesmol	1.85	%	

METHODS: GC, GC/MS

Comments:

- Results are based on sample/s submitted to Northeast Laboratories, Inc. on: 11/09/2015

Approved By: 

Alan C. Johnson, Laboratory Director

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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 – 37 (pg 1-5)

N1664819 – 01 (pg 6)

Report Date: 1/13/2016

Updated w/Terpene Results 1/15/2016 (pg 3)

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<u>Sample Site:</u>	CONNECTICUT PHARMACEUTICAL SOLUTIONS • 47 LOWER MAIN STREET, PORTLAND CT
<u>Date Collected:</u>	1/05/2016 10:35
<u>Collected by:</u>	CA of NELabs
<u>Laboratory ID #:</u>	1664766 – 37
<u>Product Description:</u>	<u>CTS #100715 FLOWER</u>

<u>Parameter</u>	<u>Result</u>	<u>Units</u>		<u>Recommended Limits *</u>
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 – 37 (pg 1-5)

N1664819 – 01 (pg 6)

Report Date: 1/13/2016

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Date Collected:	1/05/2016 10:35
Collected by:	CA of NELabs
Laboratory ID #:	1664766 – 36
Product Description:	CTS #100715 FLOWER

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:**

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Collected by:	CA of NELabs
Laboratory ID #:	1664766 – 37
Product Description:	CTS #100715 FLOWER

<u>TERPENE PROFILE</u> <u>(% Dry Weight)</u>	<u>Result</u>	<u>Units</u>
<u>Monoterpenoids</u>		
a-pinene	---	%
b-pinene	---	%
b-myrcene	0.21	%
limonene	0.18	%
ocimene	---	%
terpinolene	0.13	%
linalool	0.04	%
<u>Sesquiterpenoids</u>		
b-caryophyllene	0.45	%
humulene	0.17	%
trans-nerolidol	---	%
caryophyllene oxide	---	%
b-eudesmol	0.09	%

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

- Results are based on sample/s submitted to Northeast Laboratories, Inc. on: 1/05/2016

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Product Description:	<u>CTS #100715 FLOWER</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
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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Laboratory ID #:	1664766 – 37
Product Description:	CTS #100715 FLOWER

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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