

**Report To:**

Connecticut Pharmaceutical Solutions

Attn: Rino Ferrarese

47 Lower Main St

Portland CT 06480

Date Received: 8/04/2015

Date Tested: 8/06/2015

Laboratory Report#: N1563146

Report Date: 8/07/2015

(as emailed by R.Picard)

E-Mail: rino.ferrarese@ctpharma.comUpdate Report: 8/13/2015

= as typed COA

(see below)

<u>Sample Site:</u>	CONNECTICUT PHARMACEUTICAL SOLUTIONS • 47 LOWER MAIN STREET, PORTLAND CT
<u>Date Collected:</u>	8/04/2015 11:10
<u>Collected by:</u>	CA of NELabs
<u>Laboratory ID #:</u>	1563146 – 01
<u>Product Description:</u>	TN 0012 = produced from Canna Tsu = as rc'd 2/19/2015 = see 2/27/2015 Report #1561540 - 05

<u>CANNABINOIDS (% weight) **</u>		
	<u>Result</u>	<u>Units</u>
CBDA	0.02	% weight
CBG	0.13	% weight
CBD	2.65	% weight
CBN	0.13	% weight
THC	2.17	% weight
CBC	0.21	% weight
THCA	----	% weight

Note: Cannabinoids results were first emailed by R.Picard of NELabs on 8/07/2015

METHODS: HPLCComments:

- Results are based on sample/s submitted to Northeast Laboratories, Inc. on: 8/04/2015

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

47 Lower Main St

Portland CT 06480

Date Received: 2/18/2015

Date Tested: 2/18/2015

Laboratory Report#: N1561523

Report Date: 2/25/2015

E-Mail: rino.ferrarese@ctpharma.com

<u>Sample Site:</u>	CONNECTICUT PHARMACEUTICAL SOLUTIONS • 47 LOWER MAIN STREET, PORTLAND CT
<u>Date Collected:</u>	2/18/2015 14:00
<u>Collected by:</u>	CA of NELabs
<u>Laboratory ID #:</u>	1561523 – 08
<u>Product Description:</u>	CANNA TSU FLOWER

<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: 2/18/2015

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Alan C. Johnson,
Laboratory Director

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Attn: Rino Ferrarese

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Date Received: 2/18/2015

Date Tested: 2/19 to 2/20/2015

Laboratory Report#: N1561523

Report Date: 2/25/2015

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<u>Collected by:</u>	CA of NELabs
<u>Laboratory ID #:</u>	1561523 – 08
<u>Product Description:</u>	CANNA TSU FLOWER

<u>HEAVY METALS:</u>				
<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	<0.005	µg/kg BW/day	PASS	<0.09
Lead, Total	<0.005	µg/kg BW/day	PASS	<0.29
Mercury, Total	<0.0002	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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Sample Site:	CONNECTICUT PHARMACEUTICAL SOLUTIONS • 47 LOWER MAIN STREET, PORTLAND CT
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Collected by:	CA of NELabs
Laboratory ID #:	1561523 – 08
Product Description:	<u>CANNA TSU FLOWER</u>

TERPENE PROFILE (% Weight)		
	Result	Units
Monoterpenoids		
a-pinene	0.080	%
b-pinene	0.180	%
b-myrcene	1.050	%
limonene	0.300	%
ocimene	---	%
terpinolene	0.030	%
linalool	0.290	%
Sesquiterpenoids		
b-caryophyllene	1.330	%
humulene	0.440	%
caryophyllene oxide	0.060	%
trans-nerolidol	---	%
b-eudesmol	0.030	%

METHODS: GC, GC/MSComments:

- Results are based on sample/s submitted to Northeast Laboratories, Inc. on: 2/18/2015

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Laboratory DirectorNortheast Laboratories, Inc. 129 Mill Street Berlin, CT 06037 www.nelabsct.comTelephone: 860-828-9787 Toll Free (In State) 800-826-0105 (Out of State) 800-654-1230 Fax: 860-829-1050
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Date Received: 2/18/2015**Date Tested:** 2/23/2015**Laboratory Report#:** N1561523**Report Date:** 2/25/2015**E-Mail:** rino.ferrarese@ctpharma.com

Sample Site:	CONNECTICUT PHARMACEUTICAL SOLUTIONS • 47 LOWER MAIN STREET, PORTLAND CT
Date Collected:	2/18/2015 14:00
Collected by:	CA of NELabs
Laboratory ID #:	1561523 – 08
Product Description:	CANNA TSU FLOWER

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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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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<u>Product Description:</u>	CANNA TSU FLOWER

<u>CANNABINOIDS (% weight)</u>		
	<u>Result</u>	<u>Units</u>
CBDA	16.10	% weight
CBG	0.35	% weight
CBD	0.22	% weight
CBN	---	% weight
THC	0.35	% weight
CBC	---	% weight
THCA	12.00	% weight

METHODS: HPLC**Comments:**

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Laboratory Director