

**Report To:**

Connecticut Pharmaceutical Solutions
Attn: Rino Ferrarese and/or Mark June-Wells, Ph.D.
47 Lower Main St
Portland CT 06480

Date Received: 9/14/2015
Date Tested: 9/15/2015
Laboratory Report#: N1563715 - 14
Emailed 1st by R.Picard as #D0025
on 9/21/2015
COA / Report Date: 10/09/2015 ★

E-Mail: rino.ferrarese@ctpharma.com
and mjunewells@aerlimnology.com

Sample Site:	CONNECTICUT PHARMACEUTICAL SOLUTIONS • 47 LOWER MAIN STREET, PORTLAND CT
Date Collected:	9/14/2015 14:10
Collected by:	CA of NELabs
Laboratory ID #:	1563715 - 14
Product Description:	<u>D0025 ==RENAMED TO: RS0019</u> <u>Per Mark June-Well's 10/08/15 emailed instructions</u> • Mr. June-Wells advises: 'No amendments or additions have occurred; the inventory tracking number change is a destination change to indicate that it is going to a specific purpose.'

Per Mr. June-Well's 10/8/2015 email, this product was made from:

- #D0025 Cannabinoids, Density & Residual ETOH = NELabs #N1563715-14
as received 9/14/2015; tested 9/15/2015,
and reported via email from Ryan Picard on: 9/21/2015
 - #D0022 Cannabinoids, Density & Residual ETOH = NELabs #1563489-23
as received 8/28/2015, tested 8/31/2015
and reported via email from Ryan Picard on 9/02/2015
 - #C0037 Cannabinoids = NELabs #1563233-03
as received 8/11/2015; tested 8/12/2015,
and reported via email from Ryan Picard on: 8/12/2015
 - #D0018 Cannabinoids = NELabs #1562777-01
as received 7/06/2015; tested 7/06/2015
and reported via email from Ryan Picard on 7/06/2015
 - #C0030 Cannabinoids = NELabs #1562634-08
as received 6/22/2015; tested 6/23/2015
and reported via email from Ryan Picard on: 6/23/2015
- and
- The Root Flower was CANNA TSU (referred by Mr. June-Wells as: CTS020915)
= NELabs's Full Range Rpt #1561540 as received 2/19/2015
= Cannabinoids (pg.6) tested 2/23/2015 and reported 2/27/2015
with a follow-up Cannabinoids Re-Test on 2/24/2015, COA for which was reported 4/30/2015

<u>CANNABINOIDS (% weight)</u>	<u>RS0019 ★</u>
<u>... see page 2 for results</u>	

continued ...

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Product Description:	<u>D0025 ==RENAMED TO: RS0019</u> <u>Per Mark June-Well's 10/08/15 emailed instructions</u> Mr. June-Wells advises: 'No amendments or additions have occurred; the inventory tracking number change is a destination change to indicate that it is going to a specific purpose.' ... SEE PAGE 1 HEREIN FOR "ORIGINS" OF THIS PRODUCT #RS0019 / D0025

<u>CANNABINOIDS (% weight)</u>	<u>RS0019 ★</u>	
	<u>Result</u>	<u>Units</u>
CBDA	5.66	% weight
CBG	1.29	% weight
CBD	41.10	% weight
CBN	0.77	% weight
THC	33.10	% weight
CBC	2.22	% weight
THCA	0.11	% weight

METHODS: HPLC

Comments:

- Results are based on sample/s submitted to Northeast Laboratories, Inc. on: 9/14/2015
★ = COA typed 10/09/2015, per above.

Approved By:

Alan C. Johnson, Laboratory Director

**Report To:**

Connecticut Pharmaceutical Solutions

Attn: Rino Ferrarese

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Date Received: 2/19/2015

Date Tested: 2/20/2015

Laboratory Report#: N1561540

Report Date: 2/27/2015

E-Mail: rino.ferrarese@ctpharma.com

* =Report reissued to client 4/30/2015 (= see page 6 = Cannabinoids updated results of 2/24/2015)

Sample Site:	CONNECTICUT PHARMACEUTICAL SOLUTIONS • 47 LOWER MAIN STREET, PORTLAND CT
Date Collected:	2/19/2015 16:20
Collected by:	CA of NELabs
Laboratory ID #:	1561540 – 05
Product Description:	CANNA TSU

<u>Parameter</u>	<u>Result</u>	<u>Units</u>		<u>Recommended Limits *</u>
Total Aerobic Microbial Count	1,000	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: 2/19/2015

Approved By:

Alan C. Johnson,
Laboratory Director

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Connecticut Pharmaceutical Solutions

Attn: Rino Ferrarese

47 Lower Main St

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Date Received: 2/19/2015

Date Tested: 2/23 to 2/25/2015

Laboratory Report#: N1561540

Report Date: 2/27/2015

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<u>Sample Site:</u>	CONNECTICUT PHARMACEUTICAL SOLUTIONS • 47 LOWER MAIN STREET, PORTLAND CT
<u>Date Collected:</u>	2/19/2015 16:20
<u>Collected by:</u>	CA of NELabs
<u>Laboratory ID #:</u>	1561540 – 05
<u>Product Description:</u>	CANNA TSU

<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	<0.002	µg/kg BW/day	PASS	<0.09
Lead, Total	<0.002	µg/kg BW/day	PASS	<0.29
Mercury, Total	<0.0002	µg/kg BW/day	PASS	<0.29

Daily Dose: 1 gramBody 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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Laboratory Director

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Date Received: 2/19/2015

Date Tested: 2/23/2015

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<u>Collected by:</u>	CA of NELabs
<u>Laboratory ID #:</u>	1561540 – 05
<u>Product Description:</u>	CANNA TSU

TERPENE PROFILE (% Weight)		
	Result	Units
<u>Monoterpenoids</u>		
a-pinene	0.006	%
b-pinene	0.050	%
b-myrcene	0.220	%
limonene	0.150	%
ocimene	---	%
terpinolene	0.020	%
linalool	0.460	%
<u>Sesquiterpenoids</u>		
b-caryophyllene	0.800	%
humulene	0.220	%
caryophyllene oxide	0.200	%
trans-nerolidol	0.320	%
b-eudesmol	---	%

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

- Results are based on sample/s submitted to Northeast Laboratories, Inc. on: 2/19/2015

Approved By:

Alan C. Johnson,
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
CT Cert. #PH-0404 EPA Cert. #CT-024 USDA Cert. #0976 FDA Reg. #086650488 DEA Reg.: Federal #RN0281852 + CT #624

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Collected by:	CA of NELabs
Laboratory ID #:	<u>1561540 – 05</u>
Product Description:	<u>CANNA TSU</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
Ettoxazole	<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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Product Description:	CANNA TSU

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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Date Received: 2/19/2015

Date Tested: 2/23/2015

ReTest: 2/24/2015 *

Laboratory Report#: N1561540

Report Date: 2/27/2015

Report Update: 4/30/2015 *

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Laboratory ID #:	1561540 – 05
Product Description:	CANNA TSU

CANNABINOIDS (% weight)		
	Result	Units
CBDA	15.01	% weight
CBG	0.34	% weight
CBD	0.49	% weight
CBN	0.00	% weight
THC	0.77	% weight
CBC	0.04	% weight
THCA	11.31	% weight

METHODS: HPLC**Comments:**

- Results are based on sample/s submitted to Northeast Laboratories, Inc. on: 2/19/2015
- * =Report reissued to client 4/30/2015 (=page 6 = Cannabinoids updated results of 2/24/2015)

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Laboratory Director