

**Report To:**

Connecticut Pharmaceutical Solutions

Attn: Rino Ferrarese

47 Lower Main St

Portland CT 06480

Date Received: 12/15/2015

Date Tested: 12/11/2015

Laboratory Report#: N1564541 – 14
== per N1564600-05

Report Date: 12/16/2015

==SEE CORRECTED RESULTS =PGS. 3 + 6==

NOTE: CANNABINOIDS per Lab. Rpt#1564600-05 =CTS-E sample
(as rc'd 12/15/15) = see page #6

<u>Sample Site:</u>	CONNECTICUT PHARMACEUTICAL SOLUTIONS • 47 LOWER MAIN STREET, PORTLAND CT
<u>Date Collected:</u>	12/08/2015 10:10
<u>Collected by:</u>	CA of NELabs
<u>Laboratory ID #:</u>	1564541 - 14
<u>Product Description:</u>	<u>CTS 083115</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: 12/08/2015


Approved By: Alan C. Johnson, Laboratory Director

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E-Mail: rino.ferrarese@ctpharma.com

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Collected by:	CA of NELabs
Laboratory ID #:	1564541 - 14
Product Description:	CTS 083115

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)

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<u>Product Description:</u>	CTS 083115

<u>TERPENE PROFILE</u> <u>(% Dry Weight)</u>	<u>Result</u>	<u>Units</u>
<u>Monoterpenoids</u>		
a-pinene	---	%
b-pinene	0.03	%
b-myrcene	0.21	%
limonene	0.21	%
ocimene	---	%
terpinolene	0.02	%
linalool	0.05	%
<u>Sesquiterpenoids</u>		
b-caryophyllene	0.25	%
humulene	0.09	%
trans-nerolidol	---	%
caryophyllene oxide	---	%
b-eudesmol	0.04	%

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

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Date Collected:	12/08/2015 10:10
Collected by:	CA of NELabs
Laboratory ID #:	1564541 - 14
Product Description:	CTS 083115

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
Etiozazole	<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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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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Date Received: 12/08/2015

Date Tested: 12/14/2015

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Collected by:	CA of NELabs
Laboratory ID #:	1564541 - 14
Product Description:	CTS 083115

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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**NOTE: CANNABINOIDS per Lab. Rpt#1564600-05=CTS-E sample
(as rc'd 12/15/15) = see below)**

Sample Site:	CONNECTICUT PHARMACEUTICAL SOLUTIONS • 47 LOWER MAIN STREET, PORTLAND CT
Date Collected:	12/15/2015 10:55
Collected by:	CA of NELabs
Laboratory ID #:	1564541 – 14 == Results Per 1564600-05
Product Description:	CTS 083115 == CTS-E, PER 12/15/15 #156400-05

CANNABINOIDS	#1564600-05 =CTS-E (12/15/15)	
(% weight)	Result	Units
CBDV	----	% weight
CBDA	10.67	% weight
CBGA	0.63	% weight
CBG	0.22	% weight
CBD	0.22	% weight
THCV	----	% weight
CBN	----	% weight
THC	0.38	% weight
CBC	----	% weight
THCA	10.18	% weight

METHODS: HPLC**Comments:**

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