

**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: 3/23/2016

Date Tested: 3/24/2016

Laboratory Report#: N1665535 - 05

1st Email Report via C.Appell: 3/29/2016
 & Revised =3/30/2016

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COA Report Date: 3/31/2016 ★

Sample Site:	CONNECTICUT PHARMACEUTICAL SOLUTIONS • 47 LOWER MAIN STREET, PORTLAND CT	
Date Collected:	3/23/2016 11:45	Collected By: CA of NELabs
Laboratory ID #:	1665535 - 05	
Product Description:	TN 0016 ★	

★ = Note: Per Mark June-Well's 3/30/2016 email, product #TN 0016's

- TN 0016 = per NELabs' Report #N1665535 - 05 = was received for Cannabinoids analysis on 3/23/2016; tested 3/24/2016.
 - Cannabinoids results were 1st emailed by C.Appell on 3/24/2016; with a 2nd test results of Cannabinoids emailed by C.Appell on 3/29/2016 and by revised email of 3/30/2016 == see Cannabinoids results below.

= pedigree is (e.g. was made from):

- D 0040 = per NELabs' Report #N1665449 - 04 = was received for Cannabinoids analysis on 3/15/2016; tested 3/16/2016.
 - Cannabinoids results were then emailed by C.Appell on 3/17/2016.
- C 0056 = per NELabs' Report #N1665152 - 02 = was received for Cannabinoids analysis on 2/16/2016; tested 2/18/2016.
 - Cannabinoids results were then emailed by R.Picard on 2/19/2016.
- GTH 0723155 (Ghost Train Haze Flower)= Full Range Tests per NELabs' Report #N1564279 - 02, as received 11/09/2016
 - Cannabinoids were tested 11/09/2016, and 1st emailed by R.Picard on 11/09/2016; then included on Page #6 of the Full Range COA report issued 11/17/2016.

★ = Sample #TN 0016 = tested 3/24/2016 = Reported 3/29/2016, as Revised: 3/30/16

CANNABINOIDS		
(% weight)	Result	Units
CBDV	----	% weight
CBDA	----	% weight
CBGA	0.08	% weight
CBG	0.17	% weight
CBD	0.02	% weight
THCV	0.04	% weight
CBN	0.05	% weight
THC	4.96	% weight
CBC	0.08	% weight
THCA	0.18	% weight

METHODS: HPLC

Comments: Results are based on sample/s submitted to Northeast Laboratories, Inc. on: 3/23/2016

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

**Report To:**

Connecticut Pharmaceutical Solutions
Attn: Rino Ferrarese
47 Lower Main St
Portland CT 06480

Date Received: 11/09/2015

Date Tested: 11/09/2015

Laboratory Report#: N1564279

Report Date: 11/17/2015

E-Mail: rino.ferrarese@ctpharma.com

Sample Site:	CONNECTICUT PHARMACEUTICAL SOLUTIONS • 47 LOWER MAIN STREET, PORTLAND CT
Date Collected:	11/09/2015 12:35 PM
Collected by:	CA of NELabs
Laboratory ID #:	1564279 - 02
Product Description:	<u>GHOST TRAIN HAZE FLOWER, BATCH #GTH072315</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:**

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Date Received: 11/09/2015

Date Tested: 11/12+13/2015

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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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<u>TERPENE PROFILE</u> <u>(% Dry Weight)</u>	<u>Result</u>	<u>Units</u>
<u>Monoterpenoids</u>		
a-pinene	---	%
b-pinene	0.07	%
b-myrcene	0.49	%
limonene	0.52	%
ocimene	---	%
terpinolene	---	%
linalool	0.09	%
<u>Sesquiterpenoids</u>		
b-caryophyllene	0.56	%
humulene	0.21	%
trans-nerolidol	---	%
caryophyllene oxide	0.01	%
b-eudesmol	0.10	%

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
Chloromequat 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

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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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