

**Report To:**

Connecticut Pharmaceutical Solutions

Attn: Rino Ferrarese,Mark June-Wells & Kim Provera

47 Lower Main St

Portland CT 06480

Date Received: 1/05/2016

Date Tested: 1/12/2016

1st Emailed: 1/12/2016 by R.Picard

Laboratory Report#: N1664766 – 33

Report Date: 1/14/2016

Update Report: 1/21/2016 = Corrected ★
Results (see below)E-Mail: rino.ferrarese@ctpharma.com
mjunewells@aerlimnology.com
kim.provo@ctpharma.com

Sample Site:	CONNECTICUT PHARMACEUTICAL SOLUTIONS • 47 LOWER MAIN STREET, PORTLAND CT
Date Collected:	1/05/2016 10:35
Collected by:	CA of NELabs
Laboratory ID #:	1664766 – 33
Product Description:	GHOST TRAIN HAZE KIEF = GTH 060315 / GTH072315
Note, per Kim Provera's 1-13-2016 email instructions, the above sample was: - derived from CPS's Sample: GTH #060315 a) as reported in NELabs' 10/15/2015 Full Range Report #N1563967 – 03 = rc'd & tested 10/07/2015 AND - derived from CPS's Sample: GHOST TRAIN HAZE FLOWER-BATCH #GTH072315 b) as reported in NELabs' 11/09/2015 Full Range Report #N1564279 – 02 = rc'd & tested 11/09/2015 c) Results below per sample #GTH 060315/072315 KIEF, as received 1/05/2016 / tested 1/12/2016	

<u>CANNABINOIDS (% weight)</u>	<u>1/05/16 Sample #33,</u> <u>as tested 1/12/2016</u>	
	<u>Result</u>	<u>Units</u>
CBDV	----	% weight
CBDA	----	% weight
CBGA	2.28	% weight
CBG	----	% weight
CBD	----	% weight
THCV	----	% weight
CBN	----	% weight
THC	3.68	% weight ★
CBC	----	% weight
THCA	37.90	% weight ★

METHODS: HPLC**Comments:**

- Results are based on sample/s submitted to Northeast Laboratories, Inc. on: 1/05/2016
★ = Report updated 1-21-2016 to correct typographic result entries (see above)

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: 10/07/2015

Date Tested: 10/07/2015

Laboratory Report#: N1563967

Report Date: 10/15/2015

E-Mail: rino.ferrarese@ctpharma.com

<u>Sample Site:</u>	CONNECTICUT PHARMACEUTICAL SOLUTIONS • 47 LOWER MAIN STREET, PORTLAND CT
<u>Date Collected:</u>	10/07/2015 11:10
<u>Collected by:</u>	CA of NELabs
<u>Laboratory ID #:</u>	1563967 - 03
<u>Product Description:</u>	GTH #060315

<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: 10/07/2015

Approved By:

Alan C. Johnson, Laboratory Director

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Attn: Rino Ferrarese

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Date Received: 10/07/2015

Date Tested: 10/13 – 15/2015

Laboratory Report#: N1563967

Report Date: 10/15/2015

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<u>Date Collected:</u>	10/07/2015 11:10
<u>Collected by:</u>	CA of NELabs
<u>Laboratory ID #:</u>	1563967 - 03
<u>Product Description:</u>	GTH #060315

<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	<0.0005	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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Date Collected:	10/07/2015 11:10
Collected by:	CA of NELabs
Laboratory ID #:	1563967 - 03
Product Description:	GTH #060315

<u>TERPENE PROFILE</u> <u>(% Dry Weight)</u>	<u>Result</u>	<u>Units</u>
<u>Monoterpenoids</u>		
a-pinene	---	%
b-pinene	0.16	%
b-myrcene	0.34	%
limonene	0.27	%
ocimene	0.14	%
terpinolene	0.47	%
linalool	0.20	%
<u>Sesquiterpenoids</u>		
b-caryophyllene	0.60	%
humulene	0.12	%
trans-nerolidol	---	%
caryophyllene oxide	---	%
b-eudesmol	---	%

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

- Results are based on sample/s submitted to Northeast Laboratories, Inc. on: 10/07/2015

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Date Collected:	10/07/2015 11:10
Collected by:	CA of NELabs
Laboratory ID #:	1563967 - 03
Product Description:	GTH #060315

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:**

- Results are based on sample/s submitted to Northeast Laboratories, Inc. on: 10/07/2015

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Date Collected:	10/07/2015 11:10
Collected by:	CA of NELabs
Laboratory ID #:	1563967 - 03
Product Description:	GTH #060315

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: 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:	GHOST TRAIN HAZE FLOWER, BATCH #GTH072315

Parameter	Result	Units	Recommended Limits *
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
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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
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Daily Dose: 1 gram**Body Weight:** 50 kilograms

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AOAC 986.15, 935.50, 971.21
FCC 7, Appendix 3

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PASS = Product meets Heavy Metals Recommended Limits
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TERPENE PROFILE (% Dry Weight)	Result	Units
<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:**

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

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Parameter	Result	Units		Limits
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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
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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
<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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