Analytical Report

Report To:
Connecticut Pharmaceutical Solutions
Attn: Rino Ferrarese, Mark June-Wells & Kim Provera & Nancy Poltrack
47 Lower Main St
Portland CT 06480

Date Received: **2/24/2016 & 2/26/2016 ★**

Date Tested: **2/25/2016**
Laboratory Report#: **N1665245 – 01** (micro only)
★ N1665271 – 02 (all other tests)
Report Date: **3/02/2016**

E-Mail: rino.ferrarese@ctpharma.com
mjunewells@aerlimnology.com
kim.provo@ctpharma.com
npoltrack@gmail.com

★REPORT #: **N1665271 – 02= as rc'd 2/26/2016**
★ = see pages 2 thru 6 herein=

★REPORT DATE: **3/04/2016**

★ = Note: Per client's instructions:
Microbiological results for GTH 112015 are reported per NELabs' 2/24/2016 sample #N1665245 – 01 (see COA report on 3/02/2016); all other testing for GTH 112015 is based on samples received 2/26/2016…

Sample Site:	**CONNECTICUT PHARMACEUTICAL SOLUTIONS** • **47 LOWER MAIN STREET, PORTLAND CT**
Date Collected:	**2/24/2016 11:15** **Collected by: CA of NELabs**
Laboratory ID #:	**1665245 - 01**
Product Description:	**GTH 112015**

Parameter	Result	Units		Recommended Limits *
Total Aerobic Microbial Count	1,400	per gram	PASS	100,000
Total Yeast & Mold Count	200	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: 2/24/2016

Approved By:
Alan C. Johnson, Laboratory Director

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Date Received: **2/26/2016**
Date Tested: **3/02/2016 & 3/03/2016**
Laboratory Report#: **N1665271 – 02**
Report Date: **3/04/2016**

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Sample Site:	**CONNECTICUT PHARMACEUTICAL SOLUTIONS** • **47 LOWER MAIN STREET, PORTLAND CT**
Date Collected:	**2/26/2016 10:00** **Collected by: CA of NELabs**
Laboratory ID #:	**1665271 – 02**
Product Description:	**GTH 112015**

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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Date Received: **2/26/2016**
Date Tested: **2/29/2016**
Laboratory Report#: **N1665271 – 02**
Report Date: **3/04/2016**

Sample Site:	**CONNECTICUT PHARMACEUTICAL SOLUTIONS** • **47 LOWER MAIN STREET, PORTLAND CT**
Date Collected:	**2/26/2016 10:00** **Collected by: CA of NELabs**
Laboratory ID #:	**1665271 – 02**
Product Description:	**GTH 112015**

TERPENE PROFILE (% Dry Weight)	**Result**	**Units**
Monoterpenoids		
a-pinene	0.03	%
b-pinene	0.05	%
b-myrcene	0.38	%
limonene	0.15	%
ocimene	0.19	%
terpinolene	0.30	%
linalool	0.03	%
Sesquiterpenoids		
b-caryophyllene	0.19	%
humulene	0.05	%
trans-nerolidol	0.06	%
caryophyllene oxide	---	%
b-eudesmol	---	%

METHODS: **GC, GC/MS**

Comments:

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Sample Site:	**CONNECTICUT PHARMACEUTICAL SOLUTIONS** • **47 LOWER MAIN STREET, PORTLAND CT**
Date Collected:	**2/26/2016 10:00** **Collected by: CA of NELabs**
Laboratory ID #:	**1665271 – 02**
Product Description:	**GTH 112015**

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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Sample Site:	**CONNECTICUT PHARMACEUTICAL SOLUTIONS** • **47 LOWER MAIN STREET, PORTLAND CT**
Date Collected:	**2/26/2016 10:00** **Collected by: CA of NELabs**
Laboratory ID #:	**1665271 – 02**
Product Description:	**GTH 112015**

MYCOTOXINS

Parameter	Result	Units		Limits
Method: USP 561-II				
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
Method: USP 561-II (Mod)				
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)

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Date Received: **3/09/2016**

Date Tested: **3/09/2016**
Laboratory Report#: **N1665390 – 02**

Results 1st Emailed by C.Appell: 3/10/2016
Report Date: **3/10/2016**

Sample Site:	**CONNECTICUT PHARMACEUTICAL SOLUTIONS** • **47 LOWER MAIN STREET, PORTLAND CT**
Date Collected:	**3/09/2016 12:00 PM** **Collected by: CA of NELabs**
Laboratory ID #:	**1665390 - 02**
Product Description:	**GTH 112015 B**

CANNABINOIDS (% weight)	Result	Units
CBDV	----	% weight
CBDA	----	% weight
CBGA	2.08	% weight
CBG	0.28	% weight
CBD	----	% weight
THCV	----	% weight
CBN	----	% weight
THC	0.84	% weight
CBC	----	% weight
THCA	24.00	% weight

METHODS: **HPLC**

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