Analytical Report

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

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kim.provo@ctpharma.com
npoltrack@gmail.com

Date Received: **4/13/2016**

Date Tested: **4/13/2016**
Laboratory Report#: **N1665738 - 01**

Report Date: **4/21/2016**

Sample Site:	**CONNECTICUT PHARMACEUTICAL SOLUTIONS** • **47 LOWER MAIN STREET, PORTLAND CT**
Date Collected:	**4/13/2016 14:20** **Collected by: CA of NELabs**
Laboratory ID #:	**1665738 – 01**
Product Description:	**GTH 010516**

Parameter	Result	Units		Recommended Limits *
Total Aerobic Microbial Count	4,300	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	200	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: 4/13/2016

Approved By:
Alan C. Johnson, Laboratory Director

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Date Tested: **4/19/2016 – 4/20/2016**
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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)

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TERPENE PROFILE (% Dry Weight)	**Result**	**Units**
Monoterpenoids		
a-pinene	---	%
b-pinene	0.14	%
b-myrcene	0.78	%
limonene	0.31	%
ocimene	0.47	%
terpinolene	0.60	%
linalool	---	%
Sesquiterpenoids		
b-caryophyllene	0.44	%
humulene	0.08	%
trans-nerolidol	---	%
caryophyllene oxide	---	%
b-eudesmol	---	%

METHODS: **GC, GC/MS**

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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
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

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Product Description:	**GTH 010516**

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: **4/13/2016 / 2nd Sample 4/15/2016★**

Date Tested: **4/18/2016 / 2nd Sample 4/18/2016★**
Laboratory Report#: **N166538 – 01**
2nd Sample Lab#: **N1665755 -02 ★**
Emailed by C.Appell: 4/18/2016
Report Date: **4/21/2016**

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Date Collected:	**4/13/2016 14:20 Collected by: CA of NELabs**
Laboratory ID #:	**1665738 – 01 == ★Reported via 2nd Sample #1665755-02★**
Product Description:	**GTH 010516**

	#1665755-02★	
CANNABINOIDS (% weight)	**Result**	**Units**
CBDV	----	% weight
CBDA	----	% weight
CBGA	2.24	% weight
CBG	----	% weight
CBD	----	% weight
THCV	----	% weight
CBN	----	% weight
THC	0.56	% weight
CBC	----	% weight
THCA	25.15	% weight

METHODS: **HPLC**

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