

**Report To:**

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

Date Received: **6/08/2016**Date Tested: **6/08/2016**Laboratory Report#: **NCPS081216-06**Report Date: **8/12/2016**

E-Mail: rino.ferrarese@ctpharma.com
mark.june.wells@ctpharma.com
kim.provera@ctpharma.com
npoltrack@gmail.com

<u>Sample Site:</u>	CONNECTICUT PHARMACEUTICAL SOLUTIONS • 47 LOWER MAIN STREET, PORTLAND CT		
<u>Date Collected:</u>	6/08/2016 9:10	Collected by: CA of NELabs	
<u>Laboratory ID #:</u>	<u>1666286-04</u>		
<u>Product Description:</u>	<u>GTH 012116/021216</u> (derived as follows : GTH Kief B ← GTH 012116/021216)		

Parameter	Result	Units	Recommended Limits *
Total Aerobic Microbial Count	200	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: 6/08/2016

Approved By:

Alan C. Johnson, Laboratory Director

Northeast Laboratories, Inc. 129 Mill Street Berlin, CT 06037 www.nelabsct.com

Telephone: 860-828-9787 Toll Free (In State) 800-826-0105 (Out of State) 800-654-1230 Fax: 860-829-1050
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, Mark June-Wells
& Kim Provera & Nancy Poltrack
47 Lower Main St
Portland CT 06480

Date Received: **6/08/2016**Date Tested: **6/15 – 6/16 2016**
Laboratory Report#: **NCPS081216-06**Report Date: **8/12/2016**

E-Mail: rino.ferrarese@ctpharma.com
mark.june.wells@ctpharma.com
kim.provera@ctpharma.com
npoltrack@gmail.com

<u>Sample Site:</u>	CONNECTICUT PHARMACEUTICAL SOLUTIONS • 47 LOWER MAIN STREET, PORTLAND CT		
<u>Date Collected:</u>	6/08/2016 9:10	Collected by: CA of NELabs	
<u>Laboratory ID #:</u>	<u>1666286-04</u>		
<u>Product Description:</u>	<u>GTH 012116/021216</u> (derived as follows : GTH Kief B ← GTH 012116/021216)		

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:

- Results are based on sample/s submitted to Northeast Laboratories, Inc. on: 6/08/2016

Approved By:

Alan C. Johnson, Laboratory Director

Northeast Laboratories, Inc. 129 Mill Street Berlin, CT 06037 www.nelabsct.com

Telephone: 860-828-9787 Toll Free (In State) 800-826-0105 (Out of State) 800-654-1230 Fax: 860-829-1050
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, Mark June-Wells
& Kim Provera & Nancy Poltrack
47 Lower Main St
Portland CT 06480

Date Received: **6/08/2016**Date Tested: **6/15/2016**Laboratory Report#: **NCPS081216-06**Report Date: **8/12/2016**

E-Mail: rino.ferrarese@ctpharma.com
mark.june.wells@ctpharma.com
kim.provera@ctpharma.com
npoltrack@gmail.com

<u>Sample Site:</u>	CONNECTICUT PHARMACEUTICAL SOLUTIONS • 47 LOWER MAIN STREET, PORTLAND CT		
<u>Date Collected:</u>	6/08/2016 9:10	Collected by: CA of NELabs	
<u>Laboratory ID #:</u>	<u>1666286-04</u>		
<u>Product Description:</u>	<u>GTH 012116/021216</u> (derived as follows : GTH Kief B ← GTH 012116/021216)		

EXPANDED TERPENES**(% Dry Weight)****Result** **Units**

a-pinene	---	%
camphene	---	%
sabinene	---	%
b-pinene	---	%
b-myrcene	0.54	%
a-phellandrene	---	%
3-carene	---	%
a-terpinene	---	%
limonene	0.19	%
eucalyptol	---	%
ocimene	0.31	%
b-terpinene	---	%
Terpineol	---	%
terpinolene	---	%
linalool	---	%
(+)-fenchone	---	%
L(-)-fenchone	---	%
fenchol	---	%
(-)-isopulegol	---	%
camphor	---	%
isoborneol	---	%
(-)-borneol	---	%

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

- Results are based on sample/s submitted to Northeast Laboratories, Inc. on: 6/08/2016

Approved By:

Alan C. Johnson, Laboratory Director

Northeast Laboratories, Inc. 129 Mill Street Berlin, CT 06037 www.nelabsct.com

Telephone: 860-828-9787 Toll Free (In State) 800-826-0105 (Out of State) 800-654-1230 Fax: 860-829-1050
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, Mark June-Wells
& Kim Provera & Nancy Poltrack

47 Lower Main St
Portland CT 06480

Date Received: **6/08/2016**

Date Tested: **6/15/2016**

Laboratory Report#: **NCP081216-06**

Report Date: **8/12/2016**

E-Mail: rino.ferrarese@ctpharma.com
mark.june.wells@ctpharma.com
kim.provera@ctpharma.com
npoltrack@gmail.com

<u>Sample Site:</u>	CONNECTICUT PHARMACEUTICAL SOLUTIONS • 47 LOWER MAIN STREET, PORTLAND CT		
<u>Date Collected:</u>	6/08/2016 9:10	Collected by: CA of NELabs	
<u>Laboratory ID #:</u>	<u>1666286-04</u>		
<u>Product Description:</u>	<u>GTH 012116/021216</u> (derived as follows : GTH Kief B ← GTH 012116/021216)		

<u>EXPANDED TERPENES</u>		
<u>(% Dry Weight)</u>	<u>Result</u>	<u>Units</u>
nenthol	---	%
geraniol	---	%
nerol	---	%
(+)-pulegol	---	%
trans-b-farnesene	---	%
geranyl acetate	---	%
a-cedrene	---	%
b-caryophyllene	1.54	%
b-farnesene	---	%
humulene	0.18	%
a-farnesene	---	%
valencene	---	%
cis-nerolidol	---	%
trans-nerolidol	0.05	%
guaol	---	%
caryophyllene oxide	---	%
cedrol	---	%
b-eudesmol	---	%
a-bisabolol	---	%

METHODS: GC, GC/MS

Comments:

- Results are based on sample/s submitted to Northeast Laboratories, Inc. on: 6/08/2016


Approved By: **Alan C. Johnson, Laboratory Director**

Northeast Laboratories, Inc. 129 Mill Street Berlin, CT 06037 www.nelabsct.com

Telephone: 860-828-9787 Toll Free (In State) 800-826-0105 (Out of State) 800-654-1230 Fax: 860-829-1050
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, Mark June-Wells
& Kim Provera & Nancy Poltrack
47 Lower Main St
Portland CT 06480

Date Received: **6/08/2016**Date Tested: **6/13/2016**Laboratory Report#: **NCPS081216-06**Report Date: **8/12/2016**

E-Mail: rino.ferrarese@ctpharma.com
mark.june.wells@ctpharma.com
kim.provera@ctpharma.com
npoltrack@gmail.com

<u>Sample Site:</u>	CONNECTICUT PHARMACEUTICAL SOLUTIONS		
	• 47 LOWER MAIN STREET, PORTLAND CT		
<u>Date Collected:</u>	6/08/2016 9:10	Collected by: CA of NELabs	
<u>Laboratory ID #:</u>	<u>1666286-04</u>		
<u>Product Description:</u>	<u>GTH 012116/021216</u> (derived as follows : GTH Kief B ← GTH 012116/021216)		

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: 6/08/2016

Approved By:

Alan C. Johnson, Laboratory Director

Northeast Laboratories, Inc. 129 Mill Street Berlin, CT 06037 www.nelabsct.com

Telephone: 860-828-9787 Toll Free (In State) 800-826-0105 (Out of State) 800-654-1230 Fax: 860-829-1050

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, Mark June-Wells
& Kim Provera & Nancy Poltrack
47 Lower Main St
Portland CT 06480

Date Received: **6/08/2016**Date Tested: **6/13/2016**Laboratory Report#: **NCPS081216-06**Report Date: **8/12/2016**

E-Mail: rino.ferrarese@ctpharma.com
mark.june.wells@ctpharma.com
kim.provera@ctpharma.com
npoltrack@gmail.com

<u>Sample Site:</u>	CONNECTICUT PHARMACEUTICAL SOLUTIONS		
	• 47 LOWER MAIN STREET, PORTLAND CT		
<u>Date Collected:</u>	6/08/2016 9:10	Collected by: CA of NELabs	
<u>Laboratory ID #:</u>	<u>1666286-04</u>		
<u>Product Description:</u>	<u>GTH 012116/021216</u> (derived as follows : GTH Kief B ← GTH 012116/021216)		

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)**Comments:**

- Results are based on sample/s submitted to Northeast Laboratories, Inc. on: 6/08/2016

Approved By:

Alan C. Johnson, Laboratory Director

Northeast Laboratories, Inc. 129 Mill Street Berlin, CT 06037 www.nelabsct.com

Telephone: 860-828-9787 Toll Free (In State) 800-826-0105 (Out of State) 800-654-1230 Fax: 860-829-1050
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, Mark June-Wells
& Kim Provera & Nancy Poltrack
47 Lower Main St
Portland CT 06480

Date Received: **8/04/2016**Date Tested: **8/04/2016**Laboratory Report#: **NCPS081216-06**Report Date: **8/12/2016**

E-Mail: rino.ferrarese@ctpharma.com
mark.june.wells@ctpharma.com
kim.provera@ctpharma.com
npoltrack@gmail.com

<u>Sample Site:</u>	CONNECTICUT PHARMACEUTICAL SOLUTIONS		
	• 47 LOWER MAIN STREET, PORTLAND CT		
<u>Date Collected:</u>	8/04/2016 10:15	Collected by: CA of NELabs	
<u>Laboratory ID #:</u>	<u>1666873-06</u>		
<u>Product Description:</u>	<u>GTH 012116/021216</u> (derived as follows : GTH Kief B ← GTH 012116/021216)		

<u>CANNABINOIDS (% weight)</u>		<u>Result</u>	<u>Units</u>
	CBDV	----	% weight
	CBDA	0.14	% weight
	CBGA	3.38	% weight
	CBG	0.55	% weight
	CBD	----	% weight
	THCV	----	% weight
	CBN	----	% weight
	THC	2.20	% weight
	CBC	----	% weight
	THCA	47.59	% weight

METHODS: HPLC**Comments:**

- Results are based on sample/s submitted to Northeast Laboratories, Inc. on: 8/04/2016

Approved By:

Alan C. Johnson, Laboratory Director