

**Report To:**

Connecticut Pharmaceutical Solutions

Attn: Rino Ferrarese, Mark June-Wells& Kim Provera & Nancy Poltrack47 Lower Main St
Portland CT 06480Date Received: **5/17/2016**Date Tested: **5/17/2016**Laboratory Report#: **NCPS080316-01**Report Date: **8/03/2016****E-Mail:** rino.ferrarese@ctpharma.com
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npoltrack@gmail.com

<u>Sample Site:</u>	CONNECTICUT PHARMACEUTICAL SOLUTIONS • 47 LOWER MAIN STREET, PORTLAND CT		
<u>Date Collected:</u>	5/17/2016 11:50	Collected by: CA of NELabs	
<u>Laboratory ID #:</u>	<u>1666041-11</u>		
<u>Product Description:</u>	<u>EG0043</u> (derived as follows : EG0043 ← C0079 ← CTS021216)		

<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: 5/17/2016

Approved By:

Alan C. Johnson, Laboratory Director

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Date Received: 5/17/2016

Date Tested: 5/26/2016 to 5/27/2016

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HEAVY METALS:				
<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	<0.005	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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Date Tested: 7/28/2016

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Sample Site:	CONNECTICUT PHARMACEUTICAL SOLUTIONS • 47 LOWER MAIN STREET, PORTLAND CT	
Date Collected:	7/27/2016 9:45	Collected by: CA of NELabs
Laboratory ID #:	1666789 – 8	
Product Description:	<u>EG0043</u> (derived as follows : EG0043 ← C0079 ← CTS021216)	

EXPANDED TERPENES**(% Dry Weight)**

	Result	Units
a-pinene	---	%
camphene	0.64	%
sabinene	---	%
b-pinene	---	%
b-myrcene	---	%
a-phellandrene	---	%
3-carene	---	%
a-terpinene	---	%
limonene	---	%
eucalyptol	---	%
ocimene	---	%
b-terpinene	---	%
Terpineol	---	%
terpinolene	---	%
linalool	---	%
(+)-fenchone	---	%
L(-)-fenchone	---	%
fenchol	---	%
(-)-isopulegol	---	%
camphor	---	%
isoborneol	---	%
(-)-borneol	---	%

METHODS: GC, GC/MS

Comments:

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EXPANDED TERPENES (% Dry Weight)	Result	Units
menthol	---	%
geraniol	---	%
nerol	---	%
(+)-pulegol	---	%
trans-b-farnesene	---	%
geranyl acetate	---	%
a-cedrene	---	%
b-caryophyllene	0.19	%
b-farnesene	---	%
humulene	0.08	%
a-farnesene	---	%
valencene	0.81	%
cis-nerolidol	---	%
trans-nerolidol	---	%
guaial	---	%
caryophyllene oxide	0.26	%
cedrol	---	%
b-eudesmol	---	%
a-bisabolol	---	%

	Result	Units
Density	1.0640	g/cm ³
Residual Alcohol	1.55	%

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
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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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)

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<u>CANNABINOIDS (% weight)</u>		<u>Result</u>	<u>Units</u>
	CBDV	----	% weight
	CBDA	9.92	% weight
	CBGA	----	% weight
	CBG	0.16	% weight
	CBD	1.19	% weight
	THCV	----	% weight
	CBN	----	% weight
	THC	2.11	% weight
	CBC	----	% weight
	THCA	3.49	% weight

METHODS: HPLC**Comments:**

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