

**Report To:**

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

Date Received: 3/18/2016
Date Tested: 3/21/2016 & 3/24/2016

Laboratory Report#: N1665486 - 12
1st Email Reports via C.Appell: 3/23/2016 & 3/29/2016

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

COA Report Date: 3/30/2016 ★

Sample Site:	CONNECTICUT PHARMACEUTICAL SOLUTIONS • 47 LOWER MAIN STREET, PORTLAND CT	
Date Collected:	3/18/2016 10:30	Collected By: CA of NELabs
Laboratory ID #:	1665486 - 12	
Product Description:	EG 0031 ★	

★ = Note: Per Mark June-Well's 3/30/2016 email, product #EG 0031's pedigree is (e.g. was made from):

- EG 0031 = per NELabs' Report #N1665486-12 was received for Cannabinoids, Density & Residual Solvents analysis on 3/18/2016, with Cannabinoids tested on 3/21/2016 and 3/24/2016, and Density & Residual Solvents tested on 3/21/2016.
 - results were 1st emailed by C.Appell on 3/23/2016; with the 2nd test results of Cannabinoids emailed by C.Appell on 3/29/2016 == see Cannabinoids results below, and Density & Residual Solvents on page 2...
- D 0039 per NELabs' Report #N1665359-09= sample that was received on 3/08/2016
 - for Cannabinoids = tested 3/08/2016 and reported by R.Picard's email on 3/09/2016.
- RNGO 111015 = Full Range Tests, per NELabs' Report #N1665198-07, as received 2/18/2016.
 - Note: Cannabinoids, page 6 of that Full Range report were tested 2/22/2016, with 1st email by R.Picard on 2/24/2016, the Cannabinoids results reported on Page #6 of the Full Range COA report issued 2/25/2016.

★ = Sample #EG 0031 = tested 3/24/2016

CANNABINOIDS		
(% weight)	Result	Units
CBDV	0.79	% weight
CBDA	6.06	% weight
CBGA	0.28	% weight
CBG	0.73	% weight
CBD	34.39	% weight
THCV	0.50	% weight
CBN	0.31	% weight
THC	12.71	% weight
CBC	1.10	% weight
THCA	----	% weight

METHODS: HPLC

Comments: Results are based on sample/s submitted to Northeast Laboratories, Inc. on: 3/18/2016

Approved By:

Alan C. Johnson, Laboratory Director

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

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 - results were 1st emailed by C.Appell on 3/23/2016; with the 2nd test results of Cannabinoids emailed by C.Appell on 3/29/2016 == see Density & Residual Solvents results below...
- **D 0039** per NELabs' Report #N1665359-09= sample that was received on 3/08/2016
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 - Note: Cannabinoids, page 6 of that Full Range report were tested 2/22/2016, with 1st email by R.Picard on 2/24/2016, the Cannabinoids results reported on Page #6 of the Full Range COA report issued 2/25/2016.

★ = Sample #EG 0031 = tested 3/21/2016

DENSITY	Result	Units	Method
#EG 0031	1.0122	g/cm ³ @ 20°C	Gravimetric

★ = Sample #EG 0031 = tested 3/21/2016

RESIDUAL SOLVENTS			
(ETOH)	Result	Units	Method
Ethanol	0.21	%	Headspace GC

Comments: Results are based on sample/s submitted to Northeast Laboratories, Inc. on: 3/18/2016

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Date Received: 2/19/2016

Date Tested: 2/19/2016
Laboratory Report#: N1665198 (07 =potency;
+06=micro,metals,etc.)

Report Date: 2/25/2016

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<u>Sample Site:</u>	CONNECTICUT PHARMACEUTICAL SOLUTIONS • 47 LOWER MAIN STREET, PORTLAND CT		
<u>Date Collected:</u>	2/19/2016 11:30	Collected by: CA of NELabs	
<u>Laboratory ID #:</u>	1665198 – 06		
<u>Product Description:</u>	RNG 111015 (wet)		

<u>Parameter</u>	<u>Result</u>	<u>Units</u>		<u>Recommended Limits *</u>
Total Aerobic Microbial Count	5,200	per gram	PASS	100,000
Total Yeast & Mold Count	400	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:

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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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<u>TERPENE PROFILE</u> <u>(% Dry Weight)</u>	<u>Result</u>	<u>Units</u>
<u>Monoterpenoids</u>		
a-pinene	0.07	%
b-pinene	0.04	%
b-myrcene	0.36	%
limonene	0.05	%
ocimene	---	%
terpinolene	0.03	%
linalool	0.04	%
<u>Sesquiterpenoids</u>		
b-caryophyllene	0.06	%
humulene	0.02	%
trans-nerolidol	0.02	%
caryophyllene oxide	---	%
b-eudesmol	0.03	%

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)**Comments:**

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