

**Report To:**

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

Date Received: 4/21/2016

Date Tested: 4/22/2016

Laboratory Report#: N1665825 - 02
1st Email Report via C.Appell: 4/22/2016

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kim.provera@ctpharma.com
npolltrack@gmail.com

COA Report Date: 5/05/2016 ★

Sample Site:	CONNECTICUT PHARMACEUTICAL SOLUTIONS • 47 LOWER MAIN STREET, PORTLAND CT	
Date Collected:	4/21/2016 11:15	Collected By: CA of NELabs
Laboratory ID #:	<u>1665825 - 02</u>	
Product Description:	<u>OC0037 ★</u>	

★ = Note: Per Mark June-Well's 5/02/2016 email, product #OC0037's pedigree is (e.g. was made from):

- OC0037 = per NELabs' Report #N1665825 - 02 = was received for Cannabinoids, Terpenes, Density and Residual Solvents analysis on 4/21/2016; tested 4/22/2016...
 - Cannabinoids results were 1st emailed by C.Appell on 4/22/2016 = see Cannabinoids results below;
 - Terpenes results were tested by C.Appell on 4/22/2016; see Terpenes results on page 2;
 - Density & Residual Solvents were tested by C. Appell on 4/22/2016; see results on page 3;
- SOG 102315 Full Range Tests per NELabs' Report #N1664994 - 01, as received 1/27/2016 = with Cannabinoids and Terpenes tested 2/02/2016 = with Full Range results reported by NELabs on 2/03/2016

★ = Sample # OC0037

CANNABINOIDS		
(% weight)	Result	Units
CBDV	----	% weight
CBDA	0.16	% weight
CBGA	0.64	% weight
CBG	0.59	% weight
CBD	----	% weight
THCV	0.20	% weight
CBN	0.17	% weight
THC	35.34	% weight
CBC	0.36	% weight
THCA	19.94	% weight

METHODS: HPLC

Comments: Results are based on sample/s submitted to Northeast Laboratories, Inc. on: 4/21/2016

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

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<u>TERPENE PROFILE</u> <u>(% Dry Weight)</u>	<u>Result</u>	<u>Units</u>
<u>Monoterpenoids</u>		
a-pinene	---	%
b-pinene	0.26	%
b-myrcene	---	%
limonene	1.10	%
ocimene	---	%
terpinolene	---	%
linalool	3.43	%
<u>Sesquiterpenoids</u>		
b-caryophyllene	6.53	%
humulene	2.79	%
trans-nerolidol	---	%
caryophyllene oxide	---	%
b-eudesmol	---	%

METHODS: GC, GC/MS

Comments: Results are based on sample/s submitted to Northeast Laboratories, Inc. on: 4/21/2016

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★ = Sample # OC0037

	<u>Result</u>	<u>Units</u>	<u>Method</u>
<u>DENSITY</u>	0.9602	g/cm ³ @ 20°C	Gravimetric

★ = Sample #OC0037

	<u>Result</u>	<u>Units</u>	<u>Method</u>
<u>RESIDUAL SOLVENTS</u> <u>(ETOH - Alcohol)</u>	<0.01	%	Headspace GC

Comments: Results are based on sample/s submitted to Northeast Laboratories, Inc. on: 4/21/2016

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**Report To:**

Connecticut Pharmaceutical Solutions

Attn: Rino Ferrarese,Mark June-Wells & Kim Provera47 Lower Main St
Portland CT 06480

Date Received: 1/27/2016

Date Tested: 1/28/2016

Laboratory Report#: N1664994-01

Report Date: 2/03/2016

E-Mail: rino.ferrarese@ctpharma.com
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<u>Sample Site:</u>	CONNECTICUT PHARMACEUTICAL SOLUTIONS • 47 LOWER MAIN STREET, PORTLAND CT		
<u>Date Collected:</u>	1/27/2016 14:20	Collected by: CA of NELabs	
<u>Laboratory ID #:</u>	<u>1664994 – 01</u>		
<u>Product Description:</u>	SOG 102315		

<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: 1/27/2016

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Date Received: 1/27/2016

Date Tested: 2/01 to 2/02/2016

Laboratory Report#: N1664994-01

Report Date: 2/03/2016

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<u>Product Description:</u>	SOG 102315		

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>Product Description:</u>	SOG 102315		

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
Chloromequat 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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<u>Product Description:</u>	SOG 102315		

MYCOTOXINS				
Parameter	Result	Units		Limits
<u>Method: USP 561-II</u>				
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
<u>Method: USP 561-II (Mod)</u>				
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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