

**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: 2/09/2016

Date Tested: 2/09/2016

Laboratory Report#: N1665108 - 05
1st Email Report via R.Picard: 2/10/2016

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

COA Report Date: 2/11/2016 ★

<u>Sample Site:</u>	CONNECTICUT PHARMACEUTICAL SOLUTIONS • 47 LOWER MAIN STREET, PORTLAND CT		
<u>Date Collected:</u>	2/09/2016 14:05	Collected By: CA of NELabs	
<u>Laboratory ID #:</u>	1665108 – 05		
<u>Product Description:</u>	EG0027-2 ★		

★ = Note: Per Mark June-Well's 2/11/2016 email, product #EG0027-2's pedigree is (e.g. was made from):

- D0030 = per NELabs' Report #N1564367-12 was received for Cannabinoids analysis on 11/17/2015, tested on 11/18/2015, and was emailed 1st by Ryan Picard on 11/18/2015;
- and
- C0040 = per NELabs' Report #N1563499-01 was received for Cannabinoids analysis on 8/31/2015, tested on 8/31/2015, and was emailed 1st by Ryan Picard on 9/02/2015;
- DARK SHADOW KIEF (also known as DKS021415, per Mr. June-Well's email of 2/11/2016):
 - Dark Shadow Kief (a/k/a DKS021415), per NELabs' Report #N152551-02, was received for Full Range tests on 6/15/2015, with the Cannabinoids tested on 6/16/2015, and emailed 1st by Ryan Picard on 6/17/2015; then included in the Full Range Report that was released 6/22/2015, with Cannabinoids reported on page #6 therein.

★ = Sample #EG0027-2

CANNABINOIDS	★N1665108-05 2/09/2016	
(% weight)	Result	Units
CBDV	—	% weight
CBDA	—	% weight
CBGA	0.12	% weight
CBG	0.56	% weight
CBD	0.29	% weight
THCV	—	% weight
CBN	0.17	% weight
THC	19.80	% weight
CBC	—	% weight
THCA	0.45	% weight

METHODS: HPLC

Comments: Results are based on sample/s submitted to Northeast Laboratories, Inc. on: 2/09/2016

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

47 Lower Main St

Portland CT 06480

Date Received: 6/15/2015

Date Tested: 6/16/2015

Laboratory Report#: N1562551

Report Date: 6/22/2015

E-Mail: rino.ferrarese@ctpharma.com

Sample Site:	CONNECTICUT PHARMACEUTICAL SOLUTIONS • 47 LOWER MAIN STREET, PORTLAND CT
Date Collected:	6/15/2015 14:15
Collected by:	CA of NELabs
Laboratory ID #:	1562551 - 02
Product Description:	DARK SHADOW KIEF

<u>Parameter</u>	<u>Result</u>	<u>Units</u>		<u>Recommended Limits *</u>
Total Aerobic Microbial Count	2,400	per gram	PASS	100,000
Total Yeast & Mold Count	6,200	per gram	PASS	10,000
Bile Tolerant Gram Negative Bacteria	300	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: 6/15/2015

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Connecticut Pharmaceutical Solutions
Attn: Rino Ferrarese
47 Lower Main St
Portland CT 06480

Date Received: 6/15/2015

Date Tested: 6/19/2015

Laboratory Report#: N1562551

Report Date: 6/22/2015

E-Mail: rino.ferrarese@ctpharma.com

Sample Site:	CONNECTICUT PHARMACEUTICAL SOLUTIONS • 47 LOWER MAIN STREET, PORTLAND CT
Date Collected:	6/15/2015 11:00
Collected by:	CA of NELabs
Laboratory ID #:	1562551 – 02
Product Description:	<u>DARK SHADOW KIEF</u>

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	<0.0005	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:

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Approved By:

Alan C. Johnson, Laboratory Director

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Connecticut Pharmaceutical Solutions

Attn: Rino Ferrarese

47 Lower Main St

Portland CT 06480

Date Received: 6/15/2015

Date Tested: 6/17/2015

Laboratory Report#: N1562551

Report Date: 6/22/2015

E-Mail: rino.ferrarese@ctpharma.com

Sample Site:	CONNECTICUT PHARMACEUTICAL SOLUTIONS • 47 LOWER MAIN STREET, PORTLAND CT
Date Collected:	6/15/2015 11:00
Collected by:	CA of NELabs
Laboratory ID #:	1562551 – 02
Product Description:	DARK SHADOW KIEF

<u>TERPENE PROFILE</u>	<u>Result</u>	<u>Units</u>
<u>Monoterpenoids</u>		
a-pinene	0.06	%
b-pinene	0.14	%
b-myrcene	0.17	%
limonene	0.19	%
ocimene	—	%
terpinolene	0.49	%
linalool	0.52	%
<u>Sesquiterpenoids</u>		
b-caryophyllene	0.71	%
humulene	0.15	%
trans-nerolidol	—	%
caryophyllene oxide	0.19	%
b-eudesmol	—	%

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

- Results are based on sample/s submitted to Northeast Laboratories, Inc. on: 6/15/2015

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Date Received: 6/15/2015

Date Tested: 6/17/2015

Laboratory Report#: N1562551

Report Date: 6/22/2015

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Date Collected:	6/15/2015 11:00
Collected by:	CA of NELabs
Laboratory ID #:	1562551 – 02
Product Description:	DARK SHADOW KIEF

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 - WHOComments:

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Date Tested: 6/18/2015

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Date Collected:	6/15/2015 11:00
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Laboratory ID #:	1562551 – 02
Product Description:	DARK SHADOW KIEF

MYCOTOXINS			
<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Limits</u>
<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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