

**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: 2/03/2016

Date Tested: 2/03/2016

Laboratory Report#: N1665060 - 01
1st Email Report via R.Picard: 2/03/2016

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COA Report Date: 2/10/2016 ★

<u>Sample Site:</u>	CONNECTICUT PHARMACEUTICAL SOLUTIONS • 47 LOWER MAIN STREET, PORTLAND CT		
<u>Date Collected:</u>	2/03/2016 14:15	Collected By: CA of NELabs	
<u>Laboratory ID #:</u>	<u>1665060 - 01</u>		
<u>Product Description:</u>	OC0027 ★		

★ = Note: Per Mark June Well's 2/10/2016 email, product #OC0027's pedigree is (e.g. was made from):

- C0050 = per NELabs' Report #N1564691-05 was, received for Cannabinoids tests on 12/23/2015, tested on 12/23/2015 and was emailed 1st by Ryan Picard on 12/24/2015;
- and
- Critical Mass-Flower (which per Mr. June-Well's 2/10/16 emails is also known as 'CRIT032415') = per NELabs' Report #N1563269 - 01, was received for Full Range tests on 8/13/2015, with the Cannabinoids tested on 8/14/2015 and emailed 1st by Ryan Picard on 8/18/2015;
 - then included in the Full Range Report that was released 8/2/2015, with Cannabinoids reported on page #6 therein.

★ = Sample #OC0027

CANNABINOIDS	★N1665060-01	2/03/2016
(% weight)	Result	Units
CBDV	—	% weight
CBDA	0.18	% weight
CBGA	1.47	% weight
CBG	—	% weight
CBD	—	% weight
THCV	—	% weight
CBN	0.28	% weight
THC	17.00	% weight
CBC	—	% weight
THCA	70.40	% weight

METHODS: HPLC**Comments:** Results are based on sample/s submitted to Northeast Laboratories, Inc. on: 2/03/2016

Approved By:

Alan C. Johnson, Laboratory Director

**Report To:**

Connecticut Pharmaceutical Solutions

Attn: Rino Ferrarese

47 Lower Main St

Portland CT 06480

Date Received: 8/19/2015

Date Tested: 8/19/2015

Laboratory Report#: N1563356

Report Date: 8/24/2015

E-Mail: rino.ferrarese@ctpharma.com

Sample Site:	CONNECTICUT PHARMACEUTICAL SOLUTIONS • 47 LOWER MAIN STREET, PORTLAND CT
Date Collected:	8/19/2015 11:15
Collected by:	CA of NELabs
Laboratory ID #:	1563356 – 09
Product Description:	CRITICAL MASS #BT9 == RE-TEST of Total Yeast & Mold Count

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Recommended Limits</u> *
Total Yeast & Mold Count	2,000	per gram	PASS 10,000

* **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: 8/19/2015

Approved By:

Alan C. Johnson, Laboratory Director

**Report To:****Connecticut Pharmaceutical Solutions****Attn: Rino Ferrarese****47 Lower Main St****Portland CT 06480****Date Received: 8/19/2015****Date Tested: 8/19/2015****Laboratory Report#: N1563356****Report Date: 8/24/2015****E-Mail: rino.ferrarese@ctpharma.com**

Sample Site:	CONNECTICUT PHARMACEUTICAL SOLUTIONS • 47 LOWER MAIN STREET, PORTLAND CT
Date Collected:	8/19/2015 11:15
Collected by:	CA of NELabs
Laboratory ID #:	1563356 – 10
Product Description:	CRITICAL MASS #BT35 == RE-TEST of Total Yeast & Mold Count

Parameter	Result	Units	Recommended Limits *
Total Yeast & Mold Count	1,400	per gram	PASS 10,000

* **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: 8/19/2015

Approved By:

Alan C. Johnson, Laboratory Director

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Date Received: 8/19/2015

Date Tested: 8/19/2015

Laboratory Report#: N1563356

Report Date: 8/24/2015

E-Mail: rino.ferrarese@ctpharma.com

Sample Site:	CONNECTICUT PHARMACEUTICAL SOLUTIONS • 47 LOWER MAIN STREET, PORTLAND CT
Date Collected:	8/19/2015 11:15
Collected by:	CA of NELabs
Laboratory ID #:	1563356 – 12
Product Description:	CRITICAL MASS #BT37 == RE-TEST of Total Yeast & Mold Count

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Recommended Limits *</u>
Total Yeast & Mold Count	1,600	per gram	PASS 10,000

*** 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: 8/19/2015

Approved By:

Alan C. Johnson, Laboratory Director

**Report To:**

Connecticut Pharmaceutical Solutions

Attn: Rino Ferrarese

47 Lower Main St

Portland CT 06480

Date Received: 8/13/2015

Date Tested: 8/21/2015

Laboratory Report#: N1563269

Report Date: 8/21/2015

E-Mail: rino.ferrarese@ctpharma.com

Sample Site:	CONNECTICUT PHARMACEUTICAL SOLUTIONS • 47 LOWER MAIN STREET, PORTLAND CT
Date Collected:	8/13/2015 10:30
Collected by:	CA of NELabs
Laboratory ID #:	1563269 – 01
Product Description:	CRITICAL MASS - FLOWER

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	<0.0005	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:

- Results are based on sample/s submitted to Northeast Laboratories, Inc. on: 8/13/2015

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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Date Received: 8/13/2015

Date Tested: 8/14/2015

Laboratory Report#: N1563269

Emailed 1st by R. Picard on 8/18/2015

Report Date: 8/21/2015

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Product Description:	CRITICAL MASS - FLOWER

<u>TERPENE PROFILE</u>	<u>Result</u>	<u>Units</u>
<u>Monoterpenoids</u>		
a-pinene	—	%
b-pinene	0.16	%
b-myrcene	2.45	%
limonene	0.56	%
ocimene	—	%
terpinolene	—	%
linalool	0.51	%
<u>Sesquiterpenoids</u>		
b-caryophyllene	1.16	%
humulene	0.25	%
trans-nerolidol	—	%
caryophyllene oxide	—	%
b-eudesmol	0.05	%

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

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Product Description:	CRITICAL MASS - FLOWER

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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Product Description:	CRITICAL MASS - FLOWER

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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