

**Report To:**

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

E-Mail: rino.ferrarese@ctpharma.com
 & mjunewells@aerlimnology.com

Date Received: 11/17/2015

Date Tested: 11/18/2015

Laboratory Report#: N1564367 - 13

1st Email Report via R.Picard: 11/18/2015

★Product Re-Name =Report Date: 12/15/2015★

Sample Site:	CONNECTICUT PHARMACEUTICAL SOLUTIONS • 47 LOWER MAIN STREET, PORTLAND CT
Date Collected:	11/17/2015 14:00
Collected by:	CA of NELabs
Laboratory ID #:	1564367 -13
Product Description:	#RS0022 ★ = per M.June-Wells 12/04/15 Email = this is a tracking number change from "D0031" as rc'd 11/17/2015

★ = Sample #RS0022: This sample, NELabs' #N1564367-13, was received as Sample #D0031 on 11/17/2015, tested on 11/18/2015, and reported via email by Ryan Picard on 11/18/2015 == see #D0031 (now #RS0022)
CANNABINOIDS results below...

Note: Per Mark June Well's 12/04/15 email, product #RS0022 was made from:

- D0031 = NELabs #N1564367-13 for potency, as received 11/17/2015;,, tested 11/18/2015, with results 1st emailed by Ryan Picard 11/18/2015.
- C0046 = NELabs #N1564147-11 for potency, as received 10/23/2015; tested 10/26/2015, with results 1st emailed by Ryan Picard 20/37/2015; and a typed COA for same was issued 10/28/2015.
- GWK061015 (originally reported as Great White Kush, Batch #061015 = NELabs #N1563767-02 as received for Full Range tests on 9/17/2015/2015,with the Cannabinoids tested 17/2015. The Full Range Report was released 9/29/2015== with Cannabinoids reported on page #6 therein.
- Note: Report #N1563767-02 was updated by the Re-Test Cannabinoids' Sample # NELabs #N1564073-02, as received on 10/16/2015, tested 10/16/2015, and reported as the update/blended results Report Update on #N1563767-02 on Page #7 of original Report #N1563767-02

CANNABINOIDS	11/17/2015 #RS0022	
(% weight)	(prior name: D0031)	
	Result	Units
CBDV	----	% weight
CBDA	----	% weight
CBGA	0.40	% weight
CBG	1.40	% weight
CBD	0.20	% weight
THCV	0.43	% weight
CBN	0.59	% weight
THC	73.80	% weight
CBC	1.10	% weight
THCA	0.75	% weight

METHODS: HPLC

continued

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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1st Email Report via R.Picard: 11/18/2015

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Date Collected:	11/17/2015 14:00
Collected by:	CA of NELabs
Laboratory ID #:	1564367 -13

Comments:

- Results are based on sample/s submitted to Northeast Laboratories, Inc. on: 11/17/2015; and updated per the above on 12/15/2015.
- D0031's Cannabinoids result were 1st emailed by R.Picard of NELabs on 11/18/2015.

Approved By:

Alan C. Johnson, Laboratory Director

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Date Received: 9/17/2015

Date Tested: 9/17/2015

Laboratory Report#: N1563767

Report Date: 9/29/2015

★ = Report Update: 10/21/2015 = see Pg#7
=Cannabinoids updated
by #N1564073-02
results

<u>Sample Site:</u>	CONNECTICUT PHARMACEUTICAL SOLUTIONS • 47 LOWER MAIN STREET, PORTLAND CT
<u>Date Collected:</u>	9/17/2015 14:10
<u>Collected by:</u>	CA of NELabs
<u>Laboratory ID #:</u>	1563767 – 02
<u>Product Description:</u>	GREAT WHITE KUSH -- BATCH #061015 ★ = Blended Results 10/21/2015 with GWK – BATCH #061015 NELabs Report #N1564073 – 02 as received & tested: 10/16/2015

Sample #N1563767 – 02 (Great White Kush – Batch #061015) was received on 9/17/2015 for full range analysis, including Cannabinoids tested 9/21/2015; and the results for which were emailed directly to you on 9/21/2015 by Ryan Picard of Northeast Laboratories, and included in the full range report #N1563767-02, dated 9/29/2015.

Sample #N1564073 – 02 (GWK Batch #061515) was received on 10/16/2015 for Cannabinoids; tested on 10/16/2015; and the results for which were emailed directly to you on 10/16/2015 by Ryan Picard of Northeast Laboratories.

Your 10/19/2015 E-Mail, requested that the Cannabinoids results on the full range Great White Kush – Batch #061015 report #N1563767 – 02 should be blended with the 10/16/2015 Cannabinoids results on #N1564073 – 02 for this product. As such, Northeast Laboratories' 10/16/2015 Report #N1564073 – 02 would not need to be tested for 'full release', as merging only the Cannabinoids result would not create problems or changes of note on the original report.

Therefore, following is NELabs' 10/21/2015 UPDATE-MERGED Results Report #N1563767 - 02 for Great White Kush, reported with GWK Batch #061015 results, as tested and reported by R.Picard's 10/16/2015 email for NELabs Report #N1564073 - 02

Please feel free to contact us with any questions, concerns or comments.

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Alan C. Johnson, Laboratory Director

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Date Tested: 9/17/2015

Laboratory Report#: N1563767

Report Date: 9/29/2015

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=Cannabinoids updated
by #N1564073-02
results

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Date Collected:	9/17/2015 14:10
Collected by:	CA of NELabs
Laboratory ID #:	1563767 – 02
Product Description:	GREAT WHITE KUSH -- BATCH #061015

<u>Parameter</u>	<u>Result</u>	<u>Units</u>		<u>Recommended Limits *</u>
Total Aerobic Microbial Count	300	per gram	PASS	100,000
Total Yeast & Mold Count	200	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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<u>Laboratory ID #:</u>	1563767 – 02
<u>Product Description:</u>	GREAT WHITE KUSH -- BATCH #061015

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:

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Collected by:	CA of NELabs
Laboratory ID #:	1563767 – 02
Product Description:	GREAT WHITE KUSH -- BATCH #061015

TERPENE PROFILE (% Dry Weight)	Result	Units
Monoterpenoids		
a-pinene	0.24	%
b-pinene	0.14	%
b-myrcene	0.43	%
limonene	0.10	%
ocimene	---	%
terpinolene	---	%
linalool	0.10	%
Sesquiterpenoids		
b-caryophyllene	0.28	%
humulene	0.08	%
trans-nerolidol	---	%
caryophyllene oxide	---	%
b-eudesmol	---	%

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

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Product Description:	GREAT WHITE KUSH -- BATCH #061015

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:	GREAT WHITE KUSH -- BATCH #061015

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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<u>CANNABINOIDS (% weight)</u>	<u>10/21/15 GWK</u>	
	<u>#061015</u>	
	<u>Result</u>	<u>Units</u>
CBDA	----	% weight
CBG	----	% weight
CBD	----	% weight
CBN	----	% weight
THC	0.78	% weight
CBC	----	% weight
THCA	24.02	% weight

METHODS: HPLCComments:

- Results are based on sample/s submitted to Northeast Laboratories, Inc. on: 9/17/2015

★ = 10/21/2015 = Cannabinoids results updated by sample submitted to Northeast Laboratories on: 10/16/2015
• as emailed 1st by Ryan Picard on 10/16/2015

Approved By:

Alan C. Johnson, Laboratory Director