



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: 3/23/2016

Date Tested: 3/24/2016

Laboratory Report#: N1665535 - 04

1st Email Report via C.Appell: 3/24/2016 & 3/29/2016

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

COA Report Date: 3/31/2016 ★

<u>Sample Site:</u>	CONNECTICUT PHARMACEUTICAL SOLUTIONS • 47 LOWER MAIN STREET, PORTLAND CT		
<u>Date Collected:</u>	3/23/2016 11:45	Collected By: CA of NELabs	
<u>Laboratory ID #:</u>	<u>1665535 - 04</u>		
<u>Product Description:</u>	<u>OC0034 ★ = from C0064</u> <i>=destination name change for tracking purposes</i> <i>-- per M.June-Well's 3/30/2016 instruction memo.</i>		

★ = Note: Per Mark June-Well's 3/30/2016 email, product #OC0034's pedigree is (e.g. was made from):

- OC0034 from #C 0064 = per NELabs' Report #N1665535 - 04:
C 0064 was received for Cannabinoids, Terpenes, Density & Residual Solvents analysis on 3/23/2016
 - Cannabinoids results were 1st emailed by C.Appell on 3/24/2016; with a 2nd test results of Cannabinoids emailed by C.Appell on 3/29/2016 == see Cannabinoids results below.
 - Terpenes were tested on 3/24/2016, and emailed by C.Appell 3/24/2016) = see results on Page #2....
 - Density & Residual Solvents were also tested on 3/24/2016, and emailed by C.Appell 3/24/2016 == see results on page #3 herein.
- LMS 092115= Full Range Tests of Product #LMS092515 /092115, per NELabs' Report #N1664994 - 05
 - as received 1/27/2016.
 - Note: Cannabinoids were 1st tested 2/02/2016, with results reported on Page #6 of the Full Range COA report issued 2/03/2016
 - Page #6 of that Full Range Report (#1664994-05) was then updated 2/04/2016 per Kim Provera's 2/04/2016 email instructions as follows: #LMS 092115/092515 Cannabinoids results updated per NELabs' test results by NELabs' sample #N1665402-04, as received 2/02/2016, tested 2/03/2016, and 1st emailed by Ryan Picard on 2/03/2016.

★ = Sample #OC0034 = tested 3/24/2016

CANNABINOIDS		
(% weight)	Result	Units
CBDV	----	% weight
CBDa	1.60	% weight
CBGA	0.67	% weight
CBG	0.58	% weight
CBD	0.18	% weight
THCV	0.38	% weight
CBN	0.14	% weight
THC	37.97	% weight
CBC	0.70	% weight
THCA	39.11	% weight

METHODS: HPLC

Comments: Results are based on sample/s submitted to Northeast Laboratories, Inc. on: 3/2/2016

Approved By:

Alan C. Johnson, Laboratory Director

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

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CT Cert. #PH-0404 EPA Cert. #CT-024 USDA Cert. #0976 FDA Reg. #086650488 DEA Reg.: Federal #RN0281852 + CT #624

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Laboratory ID #:	1665535 - 04	
Product Description:	OC0034 ★ = from C0064 — <i>destination name change for tracking purposes</i> -- per M.June-Well's 3/30/2016 instruction memo.	

★ = Note: Per Mark June-Well's 3/30/2016 email, product #OC0034's pedigree is (e.g. was made from):

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 - **Terpenes were tested on 3/24/2016, and emailed by C.Appell 3/24/2016) = see results below....**
 - Density & Residual Solvents were also tested on 3/24/2016, and emailed by C.Appell 3/24/2016 == see results on Page #3 ...
- **LMS 092115= Full Range Tests of Product #LMS092515 /092115, per NELabs' Report #N1664994 - 05**
 - as received 1/27/2016.
 - Note: Cannabinoids were 1st tested 2/02/2016, with results reported on Page #6 of the Full Range COA report issued 2/03/2016
 - Page #6 of that Full Range Report (#1664994-05) was then updated 2/04/2016 per Kim Provera's 2/04/2016 email instructions as follows:
 Cannabinoids results updated per NELabs' test results on #LMS 092115/092515 by NELabs' sample #N1665402-04, as received 2/02/2016, tested 2/03/2016, and 1st emailed by Ryan Picard on 2/03/2016.

★ = Sample #OC0034 = tested 3/24/2016

TERPENE PROFILE (% Dry Weight)	Result	Units
Monoterpenoids		
a-pinene	---	%
b-pinene	---	%
b-myrcene	0.03	%
limonene	0.03	%
ocimene	---	%
terpinolene	---	%
linalool	0.35	%
Sesquiterpenoids		
b-caryophyllene	0.77	%
humulene	0.36	%
trans-nerolidol	---	%
caryophyllene oxide	---	%
b-eudesmol	0.37	%

METHODS: GC, GC/MS

Comments: Results are based on sample/s submitted to Northeast Laboratories, Inc. on: 3/23/2016

Approved By:

Alan C. Johnson, Laboratory Director

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 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 Tested: 3/24/2016

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1st Email Report via C.Appell: 3/24/2016 & 3/29/2016

COA Report Date: 3/31/2016 ★

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<u>Product Description:</u>	<u>OC0034 ★ = from C0064</u> <i>=destination name change for tracking purposes</i> <i>-- per M.June-Well's 3/30/2016 instruction memo.</i>		

★ = Note: Per Mark June-Well's 3/30/2016 email, product #OC0034's pedigree is (e.g. was made from):

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 - **Density & Residual Solvents were also tested on 3/24/2016, and emailed by C.Appell 3/24/2016 == see results below ...**
- **LMS 092115= Full Range Tests of Product #LMS092515 /092115, per NELabs' Report #N1664994 - 05**
 - as received 1/27/2016.
 - Note: Cannabinoids were 1st tested 2/02/2016, with results reported on Page #6 of the Full Range COA report issued 2/03/2016
 - Page #6 of that Full Range Report (#1664994-05) was then *updated 2/04/2016 per Kim Provera's 2/04/2016 email instructions* as follows:
Cannabinoids results updated per NELabs' test results on #LMS 092115/092515 by NELabs' sample #N1665402-04, as received 2/02/2016, tested 2/03/2016, and 1st emailed by Ryan Picard on 2/03/2016.

★ = Sample #OC0034 = tested 3/24/2016

DENSITY	Result	Units	Method
#OC0034	1.02	g/cm ³ @ 20°C	Gravimetric

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

RESIDUAL SOLVENTS			
(ETOH)	Result	Units	Method
Ethanol	1.47	%	Headspace GC

Comments: Results are based on sample/s submitted to Northeast Laboratories, Inc. on: 3/23/2016

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**Report To:**

Connecticut Pharmaceutical Solutions

Attn: Rino Ferrarese,Mark June-Wells & Kim Provera

47 Lower Main St

Portland CT 06480

Date Received: 1/27/2016

Date Tested: 1/28/2016

Laboratory Report#: N1664994-05

Report Date: 2/03/2016

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

★ Report Update: 2/04/2016 = see Page #6
Potency Results Update
(per NEL#N1665402-04)

★ = per Kim Provera's 2/04/2016 email instructions: Cannabinoid results (page #6) are updated per NELabs' test results on #LMS 092115/092515, NELabs' sample #N1665402-04, as received 2/02/2016, tested 2/03/2016, and 1st emailed by Ryan Picard on 2/03/2016

Picard on 2/03/2016			
Sample Site:	CONNECTICUT PHARMACEUTICAL SOLUTIONS • 47 LOWER MAIN STREET, PORTLAND CT		
Date Collected:	1/27/2016 14:20	Collected by: CA of NELabs	
Laboratory ID #:	1664994 - 05		
Product Description:	LMS 092515 / 092115		

Parameter	Result	Units	Recommended Limits *	
Total Aerobic Microbial Count	4,600	per gram	PASS	100,000
Total Yeast & Mold Count	700	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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Date Received: 1/27/2016

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

Laboratory Report#: N1664994-05

Report Date: 2/03/2016

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<u>Product Description:</u>	LMS 092515 / 092115		

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)

Comments:

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<u>Product Description:</u>	<u>LMS 092515 / 092115</u>		

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				
<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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