

**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: 1/22/2016

Date Tested: 1/25/2016

Laboratory Report#: N1664945 - 01

1st Email Report via R.Picard: 1/25/2016

+ duplicate 1/25/2016

COA Report Date: 1/28/2016 ★

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<u>Sample Site:</u>	CONNECTICUT PHARMACEUTICAL SOLUTIONS • 47 LOWER MAIN STREET, PORTLAND CT		
<u>Date Collected:</u>	1/22/2016 14:15	Collected By: CA of NELabs	
<u>Laboratory ID #:</u>	<u>1664945 - 01</u>		
<u>Product Description:</u>	RS0023 ★		

★ = Per Mark June Well's 1/27/2016 email, product #RS0023 was derived from:

★ = Sample #RS0023 was received at NELabs on 1/22/2016 = Sample #N1664945 - 01, tested on 1/25/2016, with a duplicate test also on 1/25/2016, with the duplicate's test results reported via email by Ryan Picard on 1/25/2016 == see results below...

- D0036 (Cannabinoids) per NELabs #N1664915 -06 as received on 1/20/2016, tested on 1/21/2016, with a duplicate tested also on 1/21/2016, with the duplicate's test results reported via email by Ryan Picard on 1/21/2016.
- and
- C0058 per NELabs #N1564871 -01 as received on 1/15/2016 for Full Range tests, with the Cannabinoids tested on 1/15/2016.
 - However, per client's request Cannabinoids results on Report #N1564871-01 were reported via client's 1/12/2016 sample, NELabs' #N1664819-11 as received 1/12/2016, tested on 1/13/2016, and 1st emailed by Ryan Picard on 1/14/2016 and then included in the Full Range Report that was released 1/22/2016 == with Cannabinoids reported on page #6 therein.
- and
- OTO-090215 (Cannabinoids) per NELabs #N1664567-10, as received on 12-10-2015, tested on 12/10/2015, with test results reported via email by Ryan Picard on 1/11/2016.

CANNABINOIDS		★ = 16644945-01 (tested 1/25/2016)	
(% weight)		Result	Units
CBDV		----	% weight
CBDA		1.16	% weight
CBGA		----	% weight
CBG		----	% weight
CBD		10.3	% weight
THCV		----	% weight
CBN		----	% weight
THC		0.92	% weight
CBC		----	% weight
THCA		----	% weight

METHODS: HPLC **Comments:** Results are based on sample/s submitted to Northeast Laboratories, Inc. 1/22/2016

Approved By:

Alan C. Johnson, Laboratory Director

Northeast Laboratories, Inc. 129 Mill Street Berlin, CT 06037 www.nelabset.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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47 Lower Main St

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Date Received: 1/15/2016

Date Tested: 1/15/2016

Laboratory Report#: N1664871-01

Report Date: 1/22/2016

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<u>Laboratory ID #:</u>	<u>1664871 - 01</u>		
<u>Product Description:</u>	C0058		

<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:

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Laboratory Report#: N1664871-01

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<u>Product Description:</u>	<u>C0058</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	<0.005	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>C0058</u>		

TERPENE PROFILE (% Dry Weight)	Result	Units
Monoterpenoids		
a-pinene	---	%
b-pinene	0.01	%
b-myrcene	0.10	%
limonene	0.11	%
ocimene	---	%
terpinolene	0.07	%
linalool	0.01	%
Sesquiterpenoids		
b-caryophyllene	0.09	%
humulene	0.03	%
trans-nerolidol	---	%
caryophyllene oxide	---	%
b-eudesmol	0.62	%

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

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<u>Product Description:</u>	<u>C0058</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			
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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