

**Report To:**

Connecticut Pharmaceutical Solutions

Attn: *Rino Ferrarese, Ryan Picard**& Kim Provera & Nancy Poltrack*

47 Lower Main St

Portland CT 06480

Date Received: 10/05/2018

Date Tested: 10/06/2018

Laboratory Report#: **NCPS112818-04**

Report Date: 11/28/2018

E-Mail: rino.ferrarese@ctpharma.comryan.picard@ctpharma.comkim.provo@ctpharma.comnpoltrack@ctpharma.com

<u>Sample Site:</u>	CONNECTICUT PHARMACEUTICAL SOLUTIONS			
	• 47 LOWER MAIN STREET, PORTLAND CT			
<u>Date Collected:</u>	10/05/2018	9:40	Collected by: CA of NELabs	
<u>Laboratory ID #:</u>	<u>1875330-01</u>			
	<u>RS 0065</u>			
<u>Product Description:</u>	(derived as follows : RS0064 ← D0062 ← C0183 ← STK032718 ← FTR082418)			

Parameter	Result	Units	Recommended Limits *	
Total Aerobic Microbial Count	11,000	per gram	PASS	100,000
Total Yeast & Mold Count	4,800	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:**

- Results are based on samples submitted to Northeast Laboratories, Inc. on: 10/05/2018

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: **08/24/2018**Date Tested: **08/27/2018**Laboratory Report#: **NCPS112818-04**Report Date: **11/28/2018**E-Mail: rino.ferrarese@ctpharma.comryan.picard@ctpharma.comkim.provo@ctpharma.comnpoltrack@ctpharma.com

<u>Sample Site:</u>	CONNECTICUT PHARMACEUTICAL SOLUTIONS • 47 LOWER MAIN STREET, PORTLAND CT		
<u>Date Collected:</u>	08/24/2018 10:25	Collected by: CA of NELabs	
<u>Laboratory ID #:</u>	<u>1874930 – 03</u>		
<u>Product Description:</u>	<u>RS 0065</u> (derived as follows : RS0064 ← D0062 ← C0183 ← STK032718 ← FTR082418)		

Parameter	Result	Units	Recommended Limits *	
Total Aerobic Microbial Count	<100,000	per gram	PASS	100,000
Total Yeast & Mold Count	<10,000	per gram	PASS	10,000
Bile Tolerant Gram Negative Bacteria	<1,000	per gram	PASS	1,000
Coliform	<1,000	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:** AltaSci E.coli (pathogenic strains) Salmonella spp. YMC, Coliforms, PAC, Gram Negatives**Comments:**

- Results are based on sample/s submitted to Northeast Laboratories, Inc. on: 08/24/2018
- All Microbiology tested by AltaSci Labs, 1 Hartford Square, New Britain CT.


Approved By: **Alan C. Johnson, Laboratory Director**

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Date Received: **09/11/2018**Date Tested: **10/11 – 10/12 2018**Laboratory Report#: **NCPS112818-04**Report Date: **11/28/2018**E-Mail: rino.ferrarese@ctpharma.comryan.picard@ctpharma.comkim.provo@ctpharma.comnpoltrack@ctpharma.com

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<u>Date Collected:</u>	10/05/2018 9:40	Collected by: CA of NELabs	
<u>Laboratory ID #:</u>	<u>1875330-01</u> <u>RS 0065</u>		
<u>Product Description:</u>	(derived as follows : RS0064 ← D0062 ← C0183 ← STK032718 ← FTR082418)		

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:**

- Results are based on sample/s submitted to Northeast Laboratories, Inc. on: 10/05/2018

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<u>Laboratory ID #:</u>	<u>1874930 – 03</u>
<u>Product Description:</u>	<u>RS 0065</u> (derived as follows : RS0064 ← D0062 ← C0183 ← STK032718 ← FTR082418)

HEAVY METALS:			
Parameter	Result	Units	Limits
Arsenic, Total	PASS	µg/kg BW/day	<4.206
Cadmium, Total	PASS	µg/kg BW/day	<2.704
Lead, Total	PASS	µg/kg BW/day	<8.712
Mercury, Total	PASS	µg/kg BW/day	<8.712

Daily Dose: 1 gram**Body Weight:** 50 kilograms**METHODS:** AltaSci Heavy Metals**Comments:**

- Results are based on sample/s submitted to Northeast Laboratories, Inc. on: 08/24/2018
- Heavy Metals tested by AltaSci Labs, 1 Hartford Square, New Britain CT.

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Date Received: **11/13/2018**Date Tested: **11/15/2018**Laboratory Report#: **NCPS112818-04**Report Date: **11/28/2018**

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<u>Sample Site:</u>	CONNECTICUT PHARMACEUTICAL SOLUTIONS		
	• 47 LOWER MAIN STREET, PORTLAND CT		
<u>Date Collected:</u>	11/13/2018	14:30	Collected by: CA of NELabs
<u>Laboratory ID #:</u>	<u>1875704-11</u>		
	<u>RS 0065</u>		
<u>Product Description:</u>	(derived as follows : RS0064 ← D0062 ← C0183 ← STK032718 ← FTR082418)		

EXPANDED TERPENES (% Dry Weight)	Result	Units
a-pinene	---	%
camphene	---	%
sabinene	---	%
b-pinene	---	%
b-myrcene	---	%
a-phellandrene	---	%
3-carene	---	%
a-terpinene	---	%
limonene	---	%
eucalyptol	---	%
ocimene	---	%
b-terpinene	---	%
terpineol	---	%
terpinolene	---	%
linalool	---	%
(+)-fenchone	---	%
L(-)-fenchone	---	%
fenchol	---	%
(-)-isopulegol	---	%
camphor	---	%
isoborneol	---	%
(-)-borneol	---	%

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

- Results are based on sample/s submitted to Northeast Laboratories, Inc. on: 11/13/2018

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Date Received: **11/13/2018**Date Tested: **11/15 & 11/20 2018**
Laboratory Report#: **NCPS101218-04**Report Date: **10/12/2018**

E-Mail: rino.ferrarese@ctpharma.com
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npoltrack@ctpharma.com

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<u>Date Collected:</u>	11/13/2018 14:30	Collected by: CA of NELabs	
<u>Laboratory ID #:</u>	<u>1875704-11</u> <u>RS 0065</u>		
<u>Product Description:</u>	(derived as follows : RS0064 ← D0062 ← C0183 ← STK032718 ← FTR082418)		

EXPANDED TERPENES (% Dry Weight)	Result	Units
menthol	---	%
geraniol	---	%
nerol	---	%
(+)-pulegol	---	%
trans-b-farnesene	---	%
geranyl acetate	---	%
a-cedrene	---	%
b-caryophyllene	---	%
b-farnesene	---	%
humulene	---	%
a-farnesene	---	%
valencene	---	%
cis-nerolidol	---	%
trans-nerolidol	---	%
guaiol	---	%
caryophyllene oxide	---	%
cedrol	---	%
b-eudesmol	---	%
a-bisabolol	---	%

Density	1.0074	g/cm ³
Residual Alcohol	<0.01	%

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

- Results are based on sample/s submitted to Northeast Laboratories, Inc. on: 11/13/2018

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Date Tested: 10/10/2018

Laboratory Report#: **NCPS112818-04**

Report Date: 11/28/2018

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	<u>RS 0065</u>		
<u>Product Description:</u>	(derived as follows : RS0064 ← D0062 ← C0183 ← STK032718 ← FTR082418)		

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:**

- Results are based on sample/s submitted to Northeast Laboratories, Inc. on: 10/05/2018

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<u>Laboratory ID #:</u>	<u>1874930 – 03</u>		
	<u>RS 0065</u>		
<u>Product Description:</u>	(derived as follows : RS0064 ← D0062 ← C0183 ← STK032718 ← FTR082418)		

PESTICIDES	
Parameter	Result
Pesticides	PASS

METHODS: AltaSci Pesticides**Comments:**

- Results are based on sample/s submitted to Northeast Laboratories, Inc. on: 08/24/2018
- Pesticides tested by AltaSci Labs, 1 Hartford Square, New Britain CT.

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<u>Product Description:</u>	(derived as follows : RS0064 ← D0062 ← C0183 ← STK032718 ← FTR082418)		

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:**

- Results are based on sample/s submitted to Northeast Laboratories, Inc. on: 10/05/2018

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<u>Product Description:</u>	<u>RS 0065</u> (derived as follows : RS0064 ← D0062 ← C0183 ← STK032718 ← FTR082418)

MYCOTOXINS			
Parameter	Result	Units	Limits
Aflatoxin B1	PASS	µg/kg	20
Aflatoxin B2	PASS	µg/kg	20
Aflatoxin G1	PASS	µg/kg	20
Aflatoxin G2	PASS	µg/kg	20
Ochratoxin-A	PASS	µg/kg	20

METHODS: AltaSci Mycotoxins**Comments:**

- Results are based on sample/s submitted to Northeast Laboratories, Inc. on: 08/24/2018
- Mycotoxins tested by AltaSci Labs, 1 Hartford Square, New Britain CT.

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<u>CANNABINOIDS (% weight)</u>	<u>Result</u>	<u>Units</u>
CBDV	----	% weight
CBDA	----	% weight
CBGA	----	% weight
CBG	----	% weight
CBD	27.37	% weight
THCV	----	% weight
CBN	----	% weight
d9-THC	24.58	% weight
d8-THC	----	% weight
CBL	----	% weight
CBC	----	% weight
THCA	----	% weight

METHODS: HPLC**Comments:**

- Results are based on a sample submitted to Northeast Laboratories, Inc. on: 11/13/2018


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