Analytical Report

Report To:
Connecticut Pharmaceutical Solutions
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Date Received: **9/06/2016**

Date Tested: **9/06/2016**
Laboratory Report#: **NCPS111816-01**

Report Date: **11/18/2016**

Sample Site:	**CONNECTICUT PHARMACEUTICAL SOLUTIONS** • **47 LOWER MAIN STREET, PORTLAND CT**
Date Collected:	**9/06/2016 11:45** **Collected by: CA of NELabs**
Laboratory ID #:	**1667210 – 07**
Product Description:	**OC0057** (derived as follows： ← OC0057 ← LMS042916)

Parameter	Result	Units		Recommended Limits *
Total Aerobic Microbial Count	900	per gram	PASS	100,000
Total Yeast & Mold Count	2,100	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:
- Results are based on sample/s submitted to Northeast Laboratories, Inc. on: 9/06/2016

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Alan C. Johnson, Laboratory Director

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Date Tested: **9/08 – 9/09 2016**
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Product Description:	**OC0057** (derived as follows： ← OC0057 ← LMS042916)

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)

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Date Received: **10/19/2016**

Date Tested: **10/24/2016**
Laboratory Report#: **NCPS111816-01**

Report Date: **11/18/2016**

Sample Site:	**CONNECTICUT PHARMACEUTICAL SOLUTIONS** • **47 LOWER MAIN STREET, PORTLAND CT**
Date Collected:	**10/19/2016 13:00** **Collected by: CA of NELabs**
Laboratory ID #:	**1667706 – 03**
Product Description:	**OC0057 – A** (derived as follows： ← OC0057 ← LMS042916)

EXPANDED TERPENES (% Dry Weight)	**Result**	**Units**
a-pinene	---	%
camphene	---	%
sabinene	---	%
b-pinene	---	%
b-myrcene	---	%
a-phellandrene	---	%
3-carene	---	%
a-terpinene	---	%
limonene	0.31	%
eucalyptol	---	%
ocimene	---	%
b-terpinene	---	%
Terpineol	---	%
terpinolene	---	%
linalool	2.11	%
(+)-fenchone	---	%
L(-)fenchone	---	%
fenchol	0.15	%
(-)isopulegol	---	%
camphor	---	%
isoborneol	---	%
(-)-borneol	---	%

METHODS: **GC, GC/MS**
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Product Description:	**OC0057 – A** (derived as follows： ← OC0057 ← LMS042916)

EXPANDED TERPENES (% Dry Weight)	**Result**	**Units**
menthol	---	%
geraniol	---	%
nerol	---	%
(+)-pulegol	---	%
trans-b-farnesene	11.13	%
geranyl acetate	---	%
a-cedrene	---	%
b-caryophyllene	1.72	%
b-farnesene	---	%
humulene	1.27	%
a-farnesene	---	%
valencene	---	%
cis-nerolidol	---	%
trans-nerolidol	0.62	%
guaiol	1.16	%
caryophyllene oxide	---	%
cedrol	---	%
b-eudesmol	---	%
a-bisabolol	---	%

Density	1.0260	g/cm³
Residual Alcohol	1.63	%

METHODS: **GC, GC/MS**

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Product Description:	**OC0057** (derived as follows： ← OC0057 ← LMS042916)

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

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Product Description:	**OC0057** (derived as follows： ← OC0057 ← LMS042916)

MYCOTOXINS

Parameter	Result	Units		Limits
Method: USP 561-II				
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
Method: USP 561-II (Mod)				
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)

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CANNABINOIDS (% weight)	Result	Units
CBDV	----	% weight
CBDA	----	% weight
CBGA	0.26	% weight
CBG	----	% weight
CBD	----	% weight
THCV	0.32	% weight
CBN	----	% weight
THC	31.93	% weight
CBC	0.68	% weight
THCA	35.98	% weight

METHODS: **HPLC**

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