Analytical Report

Report To:
Connecticut Pharmaceutical Solutions
Attn: Rino Ferrarese, Ryan Picard
& Kim Provera
47 Lower Main St
Portland CT 06480

Date Received: **08/26 & 09/10 2019**

Date Tested: **08/26 & 09/10 2019**

Laboratory Report#: **NCPS091719-01**

Report Date: **09/17/2019**

E-Mail: rino.ferrarese@ctpharma.com
ryan.picard@ctpharma.com
kim.provo@ctpharma.com

Sample Site:	**CONNECTICUT PHARMACEUTICAL SOLUTIONS** • **47 LOWER MAIN STREET, PORTLAND CT**
Date Collected:	**08/26/2019 & 09/10/2019** **Collected by: CA of NELabs**
Laboratory ID #:	**1978652-02 / 1978841-06**
Product Description:	**GGW 042219 (BT113/BT91)**

Parameter	Result	Units		Recommended Limits *
Total Aerobic Microbial Count	10,000	per gram	PASS	100,000
Total Yeast & Mold Count (9/10 re-test BT113/BT91)	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: 08/26 & 09/10 2019

Approved By:
Alan C. Johnson, Laboratory Director

Report To:
Connecticut Pharmaceutical Solutions
Attn: Rino Ferrarese, Ryan Picard
& Kim Provera & Nancy Poltrack
47 Lower Main St
Portland CT 06480

E-Mail: rino.ferrarese@ctpharma.com
ryan.picard@ctpharma.com
kim.provo@ctpharma.com
npoltrack@ctpharma.com

Date Received: **08/26/2019**

Date Tested: **08/27 – 08/29 2019**

Laboratory Report#: **NCPS091719-02**

Report Date: **09/17/2019**

Sample Site:	**CONNECTICUT PHARMACEUTICAL SOLUTIONS** • **47 LOWER MAIN STREET, PORTLAND CT**
Date Collected:	**08/26/2019 10:00** **Collected by: CA of NELabs**
Laboratory ID #:	**1978652-02**
Product Description:	**GGW 042219**

HEAVY METALS:

Parameter	Result	Units		Limits
Arsenic, Total	<0.0005	µg/kg BW/day	PASS	<0.14
Cadmium, Total	<0.007	µg/kg BW/day	PASS	<0.09
Lead, Total	<0.25	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: 08/26/2019

Approved By:
Alan C. Johnson, Laboratory Director

Report To:
Connecticut Pharmaceutical Solutions
Attn: Rino Ferrarese, Ryan Picard
& Kim Provera & Nancy Poltrack
47 Lower Main St
Portland CT 06480

E-Mail: rino.ferrarese@ctpharma.com
ryan.picard@ctpharma.com
kim.provo@ctpharma.com
npoltrack@ctpharma.com

Date Received: **08/30/2019**

Date Tested: **08/31/2019**
Laboratory Report#: **NCPS091719-02**

Report Date: **09/17/2019**

Sample Site:	**CONNECTICUT PHARMACEUTICAL SOLUTIONS** • **47 LOWER MAIN STREET, PORTLAND CT**
Date Collected:	**08/30/2019 10:00** **Collected by: CA of NELabs**
Laboratory ID #:	**1978652-02**
Product Description:	**GGW 042219**

EXPANDED TERPENES (% Dry Weight)	**Result**	**Units**
a-pinene	---	%
camphene	---	%
b-pinene	---	%
b-myrcene	0.10	%
3-carene	---	%
a-terpinene	---	%
p-cymene	---	%
limonene	0.15	%
ocimene	---	%
y-terpinene	---	%
terpinolene	---	%
linalool	0.20	%
(-)isopulegol	---	%
geraniol	---	%
b-caryophyllene	0.30	%
humulene	<0.1	%
cis-nerolidol	---	%
trans-nerolidol	---	%
guaiol	---	%
a-bisabolol	<0.1	%

METHODS: **GC, GC/MS**

Comments:

- Results are based on sample/s submitted to Northeast Laboratories, Inc. on: 08/30/2019

Approved By:
Alan C. Johnson, Laboratory Director

Analytical Report

Report To:
Connecticut Pharmaceutical Solutions
Attn: Rino Ferrarese, Ryan Picard
& Kim Provera & Nancy Poltrack
47 Lower Main St
Portland CT 06480

E-Mail: rino.ferrarese@ctpharma.com
ryan.picard@ctpharma.com
kim.provo@ctpharma.com
npoltrack@ctpharma.com

Date Received: **08/26/2019**

Date Tested: **08/27 – 08/28 2019**

Laboratory Report#: **NCPS091719-02**

Report Date: **09/17/2019**

Sample Site:	**CONNECTICUT PHARMACEUTICAL SOLUTIONS** • **47 LOWER MAIN STREET, PORTLAND CT**
Date Collected:	**08/26/2019 10:00** **Collected by: CA of NELabs**
Laboratory ID #:	**1978652-02**
Product Description:	**GGW 042219**

PESTICIDES LC (MS/MS)

Parameter	Result	Units		Limits
Bifenazate	<0.01	mg/kg	PASS	6
Bifenthrin	<0.01	mg/kg	PASS	12
Cyfluthrin	<0.01	mg/kg	PASS	12
Etoxazole	<0.01	mg/kg	PASS	24
Imazalil	<0.01	mg/kg	PASS	6
Imidacloprid	<0.01	mg/kg	PASS	36
Myclobutanil	<0.01	mg/kg	PASS	18
Pyrethrum	<0.01	mg/kg	PASS	3
Spiromesifen	<0.01	mg/kg	PASS	15
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: 08/26/2019

Approved By:
Alan C. Johnson, Laboratory Director

Report To:
Connecticut Pharmaceutical Solutions
Attn: Rino Ferrarese, Ryan Picard
& Kim Provera & Nancy Poltrack
47 Lower Main St
Portland CT 06480

E-Mail: rino.ferrarese@ctpharma.com
ryan.picard@ctpharma.com
kim.provo@ctpharma.com
npoltrack@ctpharma.com

Date Received: **08/26/2019**

Date Tested: **08/27 – 09/03 2019**
Laboratory Report#: **NCPS091719-02**

Report Date: **09/17/2019**

Sample Site:	**CONNECTICUT PHARMACEUTICAL SOLUTIONS** • **47 LOWER MAIN STREET, PORTLAND CT**
Date Collected:	**08/26/2019 10:00** **Collected by: CA of NELabs**
Laboratory ID #:	**1978652-02**
Product Description:	**GGW 042219**

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)

Comments:
- Results are based on sample/s submitted to Northeast Laboratories, Inc. on: 08/26/2019

Approved By:
Alan C. Johnson, Laboratory Director

Analytical Report

Report To:
Connecticut Pharmaceutical Solutions
Attn: Rino Ferrarese, Ryan Picard
& Kim Provera & Nancy Poltrack
47 Lower Main St
Portland CT 06480

E-Mail: rino.ferrarese@ctpharma.com
ryan.picard@ctpharma.com
kim.provo@ctpharma.com
npoltrack@ctpharma.com

Date Received: **08/30/2019**

Date Tested: **08/31/2019**
Laboratory Report#: **NCPS091719-02**

Report Date: **09/17/2019**

Sample Site:	**CONNECTICUT PHARMACEUTICAL SOLUTIONS** • **47 LOWER MAIN STREET, PORTLAND CT**
Date Collected:	**08/30/2019 10:00** **Collected by: CA of NELabs**
Laboratory ID #:	**1978652-02**
Product Description:	**GGW 042219**

CANNABINOIDS (% weight)	Result	Units
CBDV	----	% weight
CBDA	----	% weight
CBGA	1.11	% weight
CBG	----	% weight
CBD	----	% weight
THCV	----	% weight
CBN	----	% weight
THC	0.24	% weight
CBL	----	% weight
CBC	----	% weight
THCA	27.66	% weight

METHODS: **HPLC**

Comments:
- Results are based on a C sample submitted to Northeast Laboratories, Inc. on: 08/30/2019

Approved By:
Alan C. Johnson, Laboratory Director