DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION					
DISTRICT ADDRESS AND PHONE NU	MBER	DATE	(s) OF INSPECTION		
19701 Fairchild Irvine, CA 926			/03/2015 - 03/06/	2015	
(949) 608-2900	900 Fax: (949) 608-4417		11014614		
Industry Inform	mation: www.fda.gov/oc/indu	stry			
TO: Curtis M.	Boxley, Pharm.D., Pharmaci	st In Charge			
Ionia Pharmacy		15421 Red Hill			
Tustin, CA 927	780-7309	Producer of Ste Products	erile and Non-Ste	rile Drug	
observations, and do not observation, or have imp action with the FDA rep	This document lists observations made by the FDA representative(s) during the inspection of your facility. They are inspectional observations, and do not represent a final Agency determination regarding your compliance. If you have an objection regarding an observation, or have implemented, or plan to implement, corrective action in response to an observation, you may discuss the objection or action with the FDA representative(s) during the inspection or submit this information to FDA at the address above. If you have any questions, please contact FDA at the phone number and address above.				
DURING AN INSPECTIO	ON OF YOUR FIRM WE OBSERVED:				
OBSERVATION 1					
Aseptic processing are	eas are deficient regarding the system for	r monitoring environm	nental conditions.		
Specifically,					
A. SOP No. 2004 effective 11.10.14 titled "Environmental Testing for Laminar Flow Hood—EnviroTest is deficient in that					
a. There is no requirement to conduct personnel fingertip monitoring including forehead, mask, or chest on a daily basis when products are made. In actual practice, fingertip testing is done On 11/21/14, fingertip test of the sterile room technician count of one (1) colony. The firm did not identify the type of colony found. Per SOP # 2182 effective date 10/16/14 titled "Environmental Monitoring of the buffer or clean area and anteroom area" section F states (b) (4)					
b. Surface monitoring of ISO 5 and ISO 7 areas are performed on a daily basis for viable count instead of a daily basis when products are made. Per the PIC, the firm recently conducts non-viable monitoring but do not maintain any records. Non-viable monitoring is performed (b) (4) per SOP 2182 section C which states "viable and nonviable air sampling performed at least (b) (4)" The last ISO 5 hood, ISO 7 room, and ISO 8 room certifications were performed on 12/05/14.					
c. There is no requirement to use disinfectant neutralizers before taking the environmental monitoring samples in the ISO 5, ISO7 and ISO 8 zones. Per the PIC, the firm cleans these areas (b)(4)					
B. The ISO 5 hood is deficient in that					
SEE REVERSE B	MPLOYEE(S) SIGNATURE Chelsea N Sealey, Investiga Binh T. Nguyen, Investigato Roger F. Zabinski, Investig	I Lis well	Seules La Salvinaki	03/06/2015	
FORM FDA 483 (09/08)	PREVIOUS EDITION OBSOLETE INSPI	ECTIONAL OBSERVATION	ONS	PAGE 1 OF 8 PAGES	

DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION				
DISTRICT ADDRESS AND PHO	NE NUMBER	DATE(8) OF INSPECTION		
19701 Fairch:		03/03/2015 - 03/06.	/2015	
Irvine, CA (949) 608-290		3011014614		
Industry Info	ormation: www.fda.gov/oc/indu			
	M. Boxley, Pharm.D., Pharmaci			
FIRM NAME	H. BOATEY, FRAIM.D., FRAIMACE	STREET ADDRESS		
Ionia Pharmad	су	15421 Red Hill Ave		
Tustin, CA	para and a constant of the con	Producer of Storile and Non-St	arila Drug	
Tustin, CA	2780-7309 Producer of Sterile and Non-Sterile Drug Products			
a. The dynamic smoke studies conducted on 12/05/14 and 06/24/14 by a third party vendor were done with the plastic protector down. We also observed that the third party vendor employee did wear sterile gloves with arm skin still exposed during smoke study testing using with arm skin still exposed during smoke study testing using a hold party vendor employee did wear sterile gloves with arm skin still exposed during smoke study testing using a hold party vendor employee did wear sterile gloves with arm skin still exposed during smoke study testing using with a party vendor employee did wear sterile gloves with arm skin still exposed during smoke study testing using with a party vendor employee did wear sterile gloves with arm skin still exposed that the uposition when the story of the hood which has a plastic protector is always in the up position when drug products are made creating a hood opening up to the head of the technician (or about 3/4 of the hood would be open to ISO 7 environment) when he sits down on the stool to work. If the plastic protector is placed down, the opening would open down to about chest level or below (or about 1/3 of the hood would be open to ISO 7 environment) when the technician sits down. On both 03/03/15 and 03/04/15, we observed that the technician was making products with the plastic protector up. i. Testosterone Cypionate 200mg/Progesterone 2.5mg per ml lot # 030315F BUD 06/01/15 produced on 03/03/15.				
b. There is no pressure differential monitoring between ISO 5 hood and ISO 7 room to determine whether vertical air flow from the ISO 5 hood (with or without plastic protector down) is greater than ISO 7 room.				
OBSERVATION 2 Equipment and utensils are not cleaned at appropriate intervals to prevent contamination that would alter the safety, identity, strength, quality or purity of the drug product.				
Specifically,				
A. The firm has not performed cleaning validation or studies to show that their cleaning reagents are effective against bacteria, fungus, yeast, mold, and spores. SOP No. 2034, effective 11/17/14 titled "General Aseptic Procedures Used at a Laminar Airflow Workbench" mentions the use [b)(4) [b)(4) was verified as a steril cleaning reagent. None of the cleaning reagents used is sporicidal. This SOP also mentions the use of non-shedding wipes for cleaning. The wipes we observed during the inspection are wipes). The firm could not verify that the wipes). The firm could not verify that the production. There is no sanitization record for the wipes we observed one (b)(4) package containing vials to make Testosterone Cypionate				
200mg/Progesterone 2.5mg per ml lot # 030315F BUD 06/01/15 product brought from ISO 7 room into the ISO 5 hood. We observed that the package was not cleaned with an appropriate disinfectant prior to being				
SEE REVERSE OF THIS PAGE	Chelsea N Sealey, Investigate Binh T. Nguyen, Investigator Roger F. Zabinski, Investigator Roser F. Zabinski	13anA	03/06/2015 PAGE 2 OF 8 PAGES	
FORM FDA 483 (09/08)	PREVIOUS EDITION OBSOLETE INSPE	VIAVINII VIDINI I ILIUNO	or difficult	

		ALTH AND HUMAN SERVICES RUG ADMINISTRATION	
DISTRICT ADDRESS AND PHO	VE NUMBER	DATE(S) OF INSPECTION	
19701 Fairch		03/03/2015 FEINUMBER	- 03/06/2015
Irvine, CA (949) 608-290	00 Fax:(949) 608-4417	3011014614	
	ormation: www.fda.gov/oc/inc		
	M. Boxley, Pharm.D., Pharmac	eist In Charge	
Ionia Pharmac	ey	STREET ADDRESS 15421 Red Hill Ave	
Tustin, CA		Producer of Sterile and Products	Non-Sterile Drug
transfer of C. The firm's	nto the ISO 5 hood or was not transferred mechanism. s SOP No. 3026 effective 09/03/12 titled (4)— Use, Calibration, Cleaning, and his cleaned. In actual practice, the firm	" Maintenance" is deficient in that it	(b) (4)
OBSERVATION Procedures designed and followed. Specifically,	3 d to prevent microbiological contaminati	on of drug products purporting to be s	terile are not established
. The	the firm uses is not temperature in On 03/05/15, we observed that rated thermometer inside the incubator to	has (b)(4). The incubator monitored during (b)(4) and is the incubator was reading at 32°C or	(b) (4) (b) (4) (c) (d) (d) (d) (d)
product si takes abou	a fill process does not simulate the actual zes are 5ml, 10 mL, and 30 mL) and process to complete, however, the actual or interventions are introduced during the	ocessing duration. According to the tual production may take up from a	PIC, the media fill process in (b)(4). No
	estosterone Cypionate 200mg/Progestero	one 2.5mg per ml, 10 ml vial lot # 030	315F takes about (b) (4) to
P	roduce	0.15.2.11.2.11.001010777.4.23	(b) (4)
	estosterone Enanthate 250mg/ml MDV 1		
	lprostadil 20mcg/ml Bupivacaine 0.5% i	njection solution, 5 ml viai lot # 0302	13CY takes about to
	roduce .lpha Lipoic Acid 25mg/ml, 30ml vial lot	# 012315NAN takes about (b) (4) to	produce
35557 - 1 5	······································	erre commenda respectiva estado e	\$3. ★ - 17.22,00°C, 96,000 17.02.01
	m's SOP No. 3021 effective 09/03/12 titl		(b) (4)_ Use
and Maint	enance" page 6 of 6 states that (b) ((Frequency as Determined by PIC	"rather than a specific
SEE REVERSE OF THIS PAGE	Chelsea N Sealey, Investigate Binh T. Nguyen, Investigate Roger F. Zabinski, Investi	or Taul	DATE ISSUED 03/06/2015
FORM FDA 483 (09/08)	PREVIOUS EDITION OBSOLETE INSI	PECTIONAL OBSERVATIONS	PAGE 3 OF 8 PAGES

DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION				
DISTRICT ADDRESS AND PHON			DATE(S) OF INSPECTION	/0015
19701 Fairch: Irvine, CA			03/03/2015 - 03/06 FEINUMBER	/2015
(949) 608-290	9) 608-2900 Fax: (949) 608-4417		3011014614	
Industry Info	stry Information: www.fda.gov/oc/industry			
TO: Curtis	M. Boxley, Pharm.D., Pharmaci		9	
FIRM NAME		STREET ADDRESS		
Tonia Pharmac	CY TRY	15421 Red H		
Tustin, CA		Producer of Products	Sterile and Non-St	erile Drug
frequency	. In actual practice, (b) (4) te	sts were performed	d by a contract lab on the foll	lowing days:
<u> </u>		. The (b) (4) is	s used to (b) (4) stoppers a	
products s	uich as:	. The state is	sused to stoppers a	ilid oil based
producto				
	Testosterone Cyp 150/Nandrolone 150mg/r Testosterone Cyp 200/Progesterone 2.5mg/			
OBSERVATION	4			
Protective apparel	is not worn as necessary to protect drug pro	oducts from contar	mination.	
Specifically, S.O.P	. 2175 Revision 5 titled "Sterile Gowning	Procedure" is defi-	cient in that	
 A. Non-sterile gowns, facemasks, and booties are allowed to be worn in the ISO 7 and ISO 8 zones. In actual practice, these non-sterile items and sterile gloves are also worn while working in the ISO 5 and ISO 7 environment. On 03/03/2015 we observed a pharmacy technician walking between the ISO 7 and ISO 8 zone of the pharmacy with non-sterile gowning. We observed exposed facial skin during product manipulation (Testosterone Cypionate 200mg/Progesterone 2.5mg per ml lot # 030315F with BUD 06/01/15) in the ISO 5 zone. The ISO 5 hood is located in the ISO 7 area. We also noticed that the technician did not change the sterile gloves when he walked out of the ISO 7 area into ISO 8 and back into ISO 7 to work on production in ISO 5 hood. B. Employees working in the sterile area is not required to wear sterile goggles. 				
OBSERVATION 5				
Container closure systems do not provide adequate protection against foreseeable external factors in storage and use that can cause deterioration or contamination of the drug product.				
Specifically, the firm uses a the product vials. The firm does not perform any leak test on the vials containing the product. All products produced go through the (b) (4) crimping process.				
	EMPLOYEE(S) SIGNATURE			DATE ISSUED
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INSPECTIONAL OBSERVATIONS

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PREVIOUS EDITION OBSOLETE

PAGE 4 OF 8 PAGES

DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION				
	ENUMBER 1d 22612 0 Fax:(949) 608-4417 ormation: www.fda.gov/oc/indu	03/03/2015 - 0 FEI NUMBER 3011014614	3/06/2015	
TO: Curtis N	1. Boxley, Pharm.D., Pharmaci			
FIRM NAME Ionia Pharmac CITY, STATE, ZIP CODE, COUNT	Y PY	STREET ADDRESS 15421 Red Hill Ave TYPE ESTABLISHMENT INSPECTED		
Tustin, CA 9		Producer of Sterile and No.	n-Sterile Drug	
Specifically, according endotoxin testing for A. Alpha Lip B. Testostero	product purporting to be pyrogen-free is needing to the PIC the firm performs sterility or products made under individual "patient oic Acid 25mg/ml 30ml lot # 0122915NA. ne Cypionate 200mg/Progesterone 2.5mg e/Phentolamine/Alprostadil 22.5/0.83/8.33	y and endotoxin testing on finished ster (b) (4). The firm -specific" prescriptions. For example, J, BUD 03/15/15 per ml lot # 030315F BUD 06/01/15 productions.	ile drug products filled a does not conduct any duced on 03/03/15.	
Specifically, the fit process. The PIC Conformance does Examples of (b) A. Human Cl 112114NA B. Human Cl Solution U C. Papaverine	onent that is liable to microbiological contaction of the could not confirm if the not state that (b)(4) is sterile. Per to (4) products using (b)(4) include:	sed for best of the PIC, the firm does not use sterilizing the PIC, the PIC, the firm does not use sterilizing the PIC, the PI	(b) (4) (b) (4) Certificate of (b) (4). attion 10mL, lot # AL- alti-Dose Vial Injection (b) (4)	
SEE REVERSE OF THIS PAGE	Chelsea N Sealey, Investigate Binh T. Nguyen, Investigator Roger F. Zabinski, Investigator Rog	Bulan	03/06/2015	
FORM FDA 483 (09/08)	PREVIOUS EDITION OBSOLETE INSPE	CITCHED CINERY INTRO	FAOD J OF 6 FAUES	

DISTRICT ADDRESS AND PHONE NUMBER	DD AND DRUG ADMINISTRATION DATE(8) OF INSPECTION
19701 Fairchild	03/03/2015 - 03/06/2015
Irvine, CA 92612	FEI NUMBER
(949) 608-2900 Fax: (949) 608-4417	3011014614
Industry Information: www.fda.gov/	oc/industry
NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED	24
TO: Curtis M. Boxley, Pharm.D., Pl	
FIRM NAME	STREET ADDRESS
Ionia Pharmacy	15421 Red Hill Ave
CITY, STATE, ZIP CODE, COUNTRY	TYPE ESTABLISHMENT INSPECTED
Tustin, CA 92780-7309 Producer of Sterile and Non-Ster	
	Products

Testing and release of drug product for distribution do not include appropriate laboratory determination of satisfactory conformance to the final specifications prior to release.

Specifically, the firm has not performed any reconstitution studies on any of the (b) (4) products it produces such as Papaverine/Phentolamine/Alprostadil 22.5-0.83-8.33 MDV 5ml, lot 030315CU, BUD 08/30/15, date made 03/04/15.

OBSERVATION 9

Results of stability testing are not used in determining appropriate storage conditions.

Specifically,

- A. The firm does not have stability procedure and does not conduct stability studies to support the BUD's assigned on sterile drug products. Per the PIC, they rely on literature such as (b)(4) to assign product BUD's. For example, the following products were assigned with BUD's without any supportive stability studies:
 - a. Alpha Lipoic Acid 200mg/ml MDV 30ml, lot 060414AAK, BUD 09/02/14, date made 06/04/14. Per the PIC, the firm assigned a 90 day BUD based on [10](4) literature which states "Beyond Use Date after compounding is estimated to be 90 days." The following information was also noted in this [10](4) literature which the firm did not adhere to
 - i. "The Beyond Use Date assigned to this formulation is valid only if (b)(4) Chemicals/Bases, Equipment and Closure System specified in procedure are utilized." Closure System describes "20 mm Sterile Amber Glass Serum Bottle (b)(4) " the formula worksheet had no reference to which container and closure were used.
 - ii. "According to USP guidelines, in the absence of passing a sterility test the storage periods for compounded sterile preparations (high risk) cannot exceed...cold temperature...not for more than 3 days" this product was labed as "Store in refrigerator-Protect From Light"
 - b. Testosterone Cypionate 150mg/Nandrolone 150mg per ml, 10 ml, lot 021115XAH, BUD 05/12/15, date made 02/12/15. Per the PIC, the firm assigned a 90 day BUD based on bliterature which states "Beyond Use Date after compounding is estimated to be 90 days." The following information was also noted in this (b)(4) literature which the firm did not adhere to
 - i. "According to USP guidelines, in the absence of passing a sterility test the storage periods for

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	Chelsea N Sealey, Ir	wastigster (VII)	on W. Seule	DATE ISSUED

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2000-2004	FMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION			
DISTRICT ADDRESS AND PHONE NUMBER	DATE(S) OF INSPECTION			
19701 Fairchild	03/03/2015 - 03/06/2015 FEI NUMBER			
Irvine, CA 92612 (949) 608-2900 Fax:(949) 608-4				
Industry Information: www.fda.g				
NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED				
TO: Curtis M. Boxley, Pharm.D.	, Pharmacist In Charge			
Ionia Pharmacy	15421 Red Hill Ave TYPE ESTABLISHMENT INSPECTED			
Tustin, CA 92780-7309	Producer of Sterile and Non-Sterile Drug Products			
	e preparations (high risk) cannot exceedcontrolled room temperatureno			
03/04/15. Per the PIC, the f	Iprostadil 22.5-0.83-8.33 MDV 5ml, lot 030315CU, BUD 08/30/15, date made irm assigned a 180 day BUD based on (b)(4) literature which states "Frozen as 180 days." The following information was also noted in this (b)(4) literature to			
compounded sterile days" "Refrigerate	P guidelines, in the absence of passing a sterility test the storage periods for preparations (high risk) cannot exceedcold temperaturenot more than 3 at 4°C, Beyond Use Date is 30 days" – this product did not have a labe formula worksheet and per the PIC is supposed to be stored frozen.			
B. The firm does not have temperature study or procedure on how refrigerated or frozen drug products are shipped. The firm does not have product stability data to determine acceptable storage temperatures and shelf life of products for the temperature ranges. The firm does not have shipping validations studies to show that the ice pack is sufficient to keep products within an acceptable temperature range and there is no verification from customers to report if the products received were out of the acceptable temperature conditions. Finished products are packaged with an ice pack for pickup and delivery by common carriers. On 03/03/15, we observed the following products were being shipped to various locations:				
a. Sermorelin 9mg/GHRP2(5.4mg)/GHRP6(5.4mg) Multi-Dose Vial (b) (4) Injection 9ml, lot AL- 110714B, BUD 05/06/15, quantity made (b) Keep Refrigerated → (x 9ml vials were shipped to (b) (4) under Rx # (b) (4) on 03/03/15 and (x 9ml vials were shipped to (b) (4) under Rx # (b) (4) under Rx #				
 b. Trimix Papaverine/Phentolamine/Alprostadil 30-1-1 MDV 5ml, lot AL-011915XA, BUD 07/18/15, quantity made (b) Frozen → (x 5ml vials were shipped to (b) under Rx # (b) (4) on 03/03/15. 				
OBSERVATION 10				
Batch production and control records do not include complete information relating to the production and control of each batch.				
Specifically, the firm does not always have complete information on formula worksheets. For example,				
A. Alpha Lipoic Acid 25mg/ml, lot 012315NAN, Rx # BUD 03/09/15, date made 01/26/15				
EMPLOYEE(S) SIGNATURE	DATE ISSUED			
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INSPECTIONAL OBSERVATIONS PAGE 7 OF 8 PAGES FORM FDA 483 (09/08) PREVIOUS EDITION OBSOLETE

	DEPARTMENT OF HEAD FOOD AND DRU	TH AND HUMAN S G ADMINISTRATION		
19701 Fairchi			DATE(S) OF INSPECTION 03/03/2015 - 03/06	/2015
Irvine, CA 9			FEINUMBER - 03/06	/2015
(949) 608-290	0 Fax: (949) 608-4417		3011014614	
Industry Info	rmation: www.fda.gov/oc/indu	stry		
and the second control of the second control	1. Boxley, Pharm.D., Pharmaci)	
Ionia Pharmac	Y	15421 Red H	ill Ave	
CITY, STATE, ZIP CODE, COUNT	RY	TYPE ESTABLISHMENT INS		
Tustin, CA 9	2780-7309	Producer of Products	Sterile and Non-St	erile Drug
b. In c. d. V B. Alpha Lip a. P b. c. C. Papaverine 03/04/15 a. P b. d.	roduct label is missing individual ingredient manufacturer, lot #, a (b) (4) Used Mfr, lot, and Exp are missing visual inspection, (b) (4), and via oic Acid 25mg/ml, lot 012915NAJ, Rx # (roduct label is missing (b) (4) is stated to be (b) (4) with (b) (4) used did not have lot # and expiration (c) (4) used did not have lot # and expiration (c) (4) result was not circled as pass/fai H information is not filled in	(b) (4) BUD 03/15 t (b) (4) lot # and date listed	ticulates/impurities do not have 5/15, date made 01/29/15 I expiration date is missing	30/15, date made
	EMPLOYEE(S) SIGNATURE	10	11 Coules	DATE ISSUED
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OF THIS PAGE	Roger F. Zabinski, Investig	Rose Rose	1 F Zavinski	N. C.
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FORM FDA 483 (09/08)

PREVIOUS EDITION OBSOLETE

INSPECTIONAL OBSERVATIONS

PAGE 8 OF 8 PAGES

The observations of objectionable conditions and practices listed on the front of this form are reported:

- 1. Pursuant to Section 704(b) of the Federal Food, Drug and Cosmetic Act, or
- 2. To assist firms inspected in complying with the Acts and regulations enforced by the Food and Drug Administration

Section 704(b) of the Federal Food, Drug, and Cosmetic Act (21 USC 374(b)) provides:

"Upon completion of any such inspection of a factory, warehouse, consulting laboratory, or other establishment, and prior to leaving the premises, the officer or employee making the inspection shall give to the owner, operator, or agent in charge a report in writing setting forth any conditions or practices observed by him which, in his judgement, indicate that any food, drug, device, or cosmetic in such establishment (1) consists in whole or in part of any filthy, putrid, or decomposed substance, or (2) has been prepared, packed, or held under insanitary conditions whereby it may have become contaminated with filth, or whereby it may have been rendered injurious to health. A copy of such report shall be sent promptly to the Secretary."