	LITH AND HUMAN SERVICES IG ADMINISTRATION
DISTRICT ADDRESS AND PHONE NUMBER	DATE(S) OF INSPECTION
6th & Kipling St. (P.O. Box 25087)	02/19/2013 - 02/26/2013*
Denver, CO 80225-0087	FEINUMBER
(303) 236-3000 Fax: (303) 236-3100	3004146124
Industry Information: www.fda.gov/oc/indu	stry
NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED	
TO: Mr. Richard E. Rasmuson, Owner/Pharm	nacist
FIRM NAME	STREET ADDRESS
University Pharmacy, Inc.	1320 East 200 South
CITY, STATE, ZIP CODE, COUNTRY	TYPE ESTABLISHMENT INSPECTED
Salt Lake City, UT 84104	Producer of Sterile drug products

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 INSPECTION OF YOUR FIRM WE OBSERVED:

OBSERVATION 1

Equipment and utensils are not sanitized at appropriate intervals to prevent contamination that would alter the safety, identity, strength, quality or purity of the drug product.

Specifically,

On February 19th, 2013, during an inspectional tour of the ISO 5 sterile core, I observed the following inside of the firm's Hood where terile injectables are produced:

- 1) Along the front perforated/pored air guard, spills and splatters of amber and white colored residue were observed stuck to/clogged in these perforations. Approximately 1mm of a dusty/fuzzy film was observed suspended/hanging from this residue. Approximately 20% of the 600 by 600 metal guard was observed affected with the same;
- 2) Below the perforated/pored air guard, multiple spills and splatters of amber, rust, and white colored residue were observed in a drip-like metal pan. More than one of these splattered spots were observed to be approximately 2 inches in diameter and approximately 50% of the metal pan was observed to be affected with the same;
- 3) Above the work surface and directly below the hood's HEPA filter, multiple white residue splatters were observed attached to this suspended perforated/pored ceiling. One of these splatter marks was approximately 6 inches in diameter and the total splattering covered approximately 15% of the metal ceiling. According to the pharmacy technician, this had never been noticed by him and possibly occured from a misguided stream of liquid ejected from a highly-pressurized syringe;
- 4) On both sides of the work surface area, in the crevices between the work surface area and the side walls of the ISO 5 sterile hood, spills and splatterings of an amber colored material were observed running along approximately 20% of both of these crevices.

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INSPECTIONAL OBSERVATIONS

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OBSERVATION 2

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

Specifically,

- A. Firm released and dispensed Progesterone/Pregnenolone 50mg/2.5mg injection lot 721372 without test results of sterility, endotoxins and potency. Progesterone/Pregnenolone 50mg/2.5mg lot 721372 was produced 1/22/13 with a bulk yield amount (b) (4) There is no documentation in the Formulation Worksheet of the number of individual (b) (4) vials filled from the (b) (4) bulk batch. Director of Compounding stated they can fill approximately (b) (4) vials.
- B. Firm released and dispensed bulk batch of Progesterone/Pregnenolone 50/2.5 mg/ml lot 716184 without performing a potency/assay on both active ingredients. Specification for Progesterone and Pregnenolone is for both actives. Firm stated the contract lab is having a hard time validating a method for Pregnenolone because it is too close chemically to the other active.
- C. Firm released and dispensed bulk batch of Progesterone/Pregnenolone lot 711102 without performing a potency test on Pregnenolone. Pregnenolone specification is (b) (4) released which can fill approximately (b) (4) vials.
- D. After further manipulations of the bulk sterile drug product (filling of individual product vials), the firm performs a sterility test only and not endotoxins or potency on the finished drug product vial. For example, TRIMIX(Papverine/Phentolamine/Alprostadyl) 17.65/0.588/5.88 injections lot# 720775 (b) (4) bulk batch passed the specifications for sterility, endotoxins and potency. After the test results passed specification, the firm (b) (4) fills the vials from the bulk batch and tests the finished product vials for sterility only. In addition, if less than(b) units of sterile drug product are produced from a bulk batch then no testing is performed per SOP No. 10.009 titled "Sterile Preparation Release Tests- Sterility, Bacterial Endotoxin, and Pyrogen Test".

OBSERVATION 3

Procedures designed to prevent microbiological contamination of drug products purporting to be sterile do not include adequate validation of the sterilization process.

Specifically,

A. The sterilization process for producing the bulk batches of TRIMIX

(Papaverine/Phentolamine/Alprostadyl) 17.65/0.588/5.88 injections, Progestrone 50mg/ml olive oil injections, and Progesterone/Pregnenolone 50/2.5mg/ml sesame oil injections has not been validated. The firm has no documentation to qualify the total with regards to bacterial retention, extractables, and hardware compatibility;

SEE REVERSE OF THIS PAGE Erika V. Butler, Investigator Zachery L. Miller, Investigator

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INSPECTIONAL OBSERVATIONS

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Salt Lake Ci	ty, UT 84104	Producer of	Sterile drug produc	cts
sesar chall Prog injec for tl The batch Hydr	ne oil batches. The firm has no documental enged organisms or bioburden quantity. All estrone injections, and Progesterone/Pregnetions. In addition, SOP # 8.012 titled "Compact does not specify the min (b) (4) sterilization process for producing the has not been validated. There is no document oxyprogesterone batches produced by the first sterilization process for producing the first sterilization process for p	tion to challenge the ingredients are cholone and Hydro pounding of Steril nimum pressure net the bulk batches oumentation of the cholone	re non-sterile for the TRIMIX oxyprogesterone 250mg/ml see Solutions"; written proceduled for the control of Hydroxyprogesterone 250m studies for the visualist for the visual	with Kinjections, esame oil ures established est to pass. ng/ml sesame oil olume of tion, the (b) (4)
syste docu studi syste C. There firm 7226 Opht time	firm uses a (b) (4) system arm. The entire unit is (b) (4) mentation of time and temperature. A BI in es to demonstrate the efficacy of the method in is used for the Progesterone/Pregnenolor is in a validated sterilization process for sterilization process for sterilization process for sterilization ophthalmic so (b) (4) with a BI and thalmic eye drop tip was immersed in a beal for soaking the eye drop tip. After the drug and dispensed to the patient.	d used to sterilize to see 50/2.5mg/ml seed to sterilizing an eye drop terile drug called I (b) (4) asker of (b) (4) for	for sterilization the (b) (4) There are not the (b) (4) unit. This (b) (4) same oil batches.	observed the gel eye drops lot non-sterile dure stating the
OBSERVATION	4		25	
Procedures designe	ed to prevent microbiological contamination	of drug products	purporting to be sterile are n	ot followed.
	2013, while witnessing the pharmacy techn lot #722604 and TRIMIX(Papaverine/Pher I the following:			
1) The technician's	hands and arms were observed inside of th	e ISO 5 hood with	nout sterile sleeve covers;	*
2) The technician's	movements in the ISO 5 hood were observ	ed to be too fast.	w www	to
the ISO 7 buffer zo	ring sterile compounding, the technician lef one, the ISO 7 ante/gowning room, and into materials/sterile gloves. He immediatley r	the ISO 8 prep ro	om to discard collected trash	without
44	EMPLOYEE(6) EXGNATURE	9R	**************************************	DATE ISSUED
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	DEPARTMENT OF HEA	LTH AND HUMAN S	SERVICES	
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TO: Mr. Ric	hard E. Rasmuson, Owner/Pharm	nacist simeer ADDRESS		19201 193000
University P	narmacy, Inc.	1320 East 2		
	cy, UT 84104	Producer of Sterile drug products		ets
ante/gowning roon	n, and reached inside the ISO 5 hood for th	ne sterile (b)(4) to	sanitize his gloves.	
OBSERVATION The control system	5 as necessary to prevent contamination or m	nix-ups are deficien	et.	300 3.200
5 Class 16 pharmacy the ISO 5 air sample 2/23/12. samples a	to environmental monitoring or personnel to Laminar flow hood during or immediate technician stated they conduct viable air is hood producing sterile drug products. For some collected in the ISO 5 hood on the The frequency of the viable air sampling is re collected every (b) (4) in the ISO 5 g is only conducted during (b) (4)	ely after producing monitoring and surf example, "The En following dates: 2/ s not consistent and hood: last collecte	sterile injectable drug productace samples when they are no revironmental Air Sample Log (13/13, 11/29/12, 10/12/12, 8/d it is not defined in a proceed d March and September of 20	ots. The ot in operation in "shows viable "9/12, 6/5/12, ure. Surface of the operation of t
	nar flow hood. There are no disinfection st	udies to demonstra	ate the (b) (4) is effective a	gainst bacterial
products. (b) (4) sterile eye sterile cor Disinfecti	wed the inadequate disinfection of the ISO. The Pharmacy technician was observed on disinfectant. He did not remove the stored drop assemblies) in the hood and did not appounding of injectables. In addition, the sing", No. 5.003 Revision 01 does not describe area 2. Clean surface.	aly wiping the table items (15)(4) but wipe down the side SOP titled, "Sterile	top work surface with a sterik k batch of Progesterone, eye es or the back of the hood for Compounding Room Cleania	ile wipe and the drop solution, preparation of and
(b) (4)	o rotation of disinfectants used in the ISO which is used the clean room and outside the ISO 5 ho	ised as a sporicide	room, ante room and prepara for the cleaning of the non-st	
scales in t (b) (4) weigh sca	ved pharmcy technician weigh non-sterile eletween weighing the actives for two separates and pink dry powder residue which; has not where non-sterile dry ingredients are we	ate formulations d accumulated in the	b) (4) . We observed debris in	crevices of
	studies are performed in the ISO 5 Hood over sterile drug product. In addition, the			
e e	EMPLOYEE(S) SIGNATURE	912	**************************************	DATE ISSUED
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OBSERVATION 6

Results of stability testing are not used in determining expiration dates.

Specifically,

- A. There is no stability data to support the sterility or potency of Progesterone/Pregnenolone vials beyond Use Date (BUD) of 6 months. For example, Progesterone/Pregnenolone 50mg/2.5 mg lot 716184 produced on 9/21/12 has a beyond use date of 3/20/13.
- B. There is no stability data to support the potency of the TRIMIX(Papaverine/Phentolamine/Alprostadyl) 17.65mg/0.588mg/5.88mg injections, Progesterone 50mg/ml olive oil injections, refrigerated drug vials BUD of 90 days. TriMix lot 720775 batch produced and refrigerated on 1/8/13; BUD of 4/8/13.
- C. There is no stability protocol to evaluate each of the drugs for physical stability, chemical stability, and microbiological stability throughout the shelf life claimed and storage conditions.

* DATES OF INSPECTION:

02/19/2013(Tue), 02/20/2013(Wed), 02/21/2013(Thu), 02/22/2013(Fri), 02/26/2013(Tue)

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