-6	DEPARTMENT OF HEA	LTH AND HUMAN SERVICES			
	FOOD AND DRI	UG ADMINISTRATION DATE(S) OF INSPECTION			
Metatana.cz	Fairchild	12/03/2013 - 01/09/2014*			
	e, CA 92612	FEINUMBER			
(949)	608-2900 Fax: (949) 608-4417	3007200605			
Indus	try Information: www.fda.gov/oc/indu	ustry			
TO:	Troy A. Albright, Owner / Pharmacis	t in Charge			
FIRM NAME	ITOY A. AIBLIGHT, OWNET, INDIMETES	STREET ADDRESS			
Zions	RX Formulations Services LLC dba	5949 E University Dr			
	rmuations Serv.				
163200101000000	, ZIP CODE, COUNTRY	TYPE ESTABLISHMENT INSPECTED			
Mesa,	AZ 85205-7435	Producer of Sterile Drug Products			
action w	with the FDA representative(s) during the inspection or submiss, please contact FDA at the phone number and address about	action in response to an observation, you may discuss the objection or nit this information to FDA at the address above. If you have any ove.			
DURING	AN INSPECTION OF YOUR FIRM WE OBSERVED:				
V-1					
	ND ODVICE	TO TO THE PARTY OF			
	PRODUC	TION SYSTEM			
OBSE		2. To seaso terms inspected in a regional in the light will be light as			
Aseptic	processing areas are deficient regarding the system f	or monitoring environmental conditions.			
Specific					
Specific	carry,				
	ring of the firm's ISO 5 Hood environments and ISO one during actual production, for example:	7 Cleanroom Environment used to produce sterile drug products			
a)	Lack of viable particulate air monitoring (ISO 5). There is no monitoring of the viable air particulates during aseptic processing of drug products in the ISO 5 environments. Air sampling is only conducted by an outside contractor during (b)(4) certification.				
b)	Lack of viable particulate air monitoring (ISO 7). There is no monitoring of the viable air particulates during aseptic processing of drug products in the ISO 7 cleanroom environment. Air sampling is only conducted by an outside contractor during (b)(4) certification.				
c)	Lack of active non-viable particulate air monitoring (ISO 5). There is no monitoring of the non-viable air particulates during aseptic processing of drug products in the ISO 5 environments. Particulate air analysis is only performed during certification by an outside contractor during (b) (4) certification.				
d)	Lack of active non-viable particulate air monitoring (ISO 7). There is no monitoring of the non-viable air particulates during production of the drug products in the ISO 7 cleanroom. The ISO 5 Biosafety cabinets and Laminar air flow hoods are located within the ISO 7 cleanroom. Particulate air analysis is only performed during certification by an outside contractor during (b)(4) certification.				
1					

differentials during aseptic processing of drug products. There are no devices to read the pressure differential EMPLOYEE(S) SIGNATURE DATE ISSUED Mitania 11/09/14 Joey V. Quitania, Investigator Linda Thai, Investigator
Timothy T. Kapsala, Investigator
Marcus F. Yambot, Investigator SEE REVERSE 01/09/2014 OF THIS PAGE INSPECTIONAL OBSERVATIONS

FORM FDA 483 (09/08) PREVIOUS EDITION OBSOLETE PAGE 1 OF 5 PAGES

	OF HEALTH AND HUMAN S	SERVICES					
DISTRICT ADDRESS AND PHONE NUMBER	AND DRUG ADMINISTRATION	DATE(S) OF INSPECTION					
19701 Fairchild	12/03/2013 - 01/09	/2014*					
Irvine, CA 92612 (949) 608-2900 Fax: (949) 608-4417		FEI NUMBER 3007200605					
Industry Information: www.fda.gov/oc	/industry	3007200003					
NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED	E	de la companya della companya della companya de la companya della					
TO: Troy A. Albright, Owner / Pharm	acist in Charge						
Zions RX Formulations Services LLC d RX Formuations Serv.	ba 5949 E Univ	5949 E University Dr					
CITY, STATE, ZIP CODE, COUNTRY	A STATE OF THE PART OF THE PAR	TYPE ESTABLISHMENT INSPECTED					
Mesa, AZ 85205-7435	Producer of	Sterile Drug Produ	cts				
between the ISO 7 cleanroom to the lesser clean areas. The firm's ISO 7 cleanroom is separated only by plastic strip curtains from the ante-room and non-sterile processing area. There is no further monitoring of the cleanroom pressure differential either manually or by electronic devices during production. f) Lack of active monitoring of differential pressures (ISO 5). The ISO 5 environments are equipped with pressure differential gauges, however, the readings are not recorded nor are they routinely read. There is no further monitoring of the cleanroom pressure differential either manually or by electronic devices during production.							
g) Lack of routine personnel monitoring for operators conducting compounding operations of aseptically processed drug products. Sampling of personnel gloves or arms is not conducted after every lot of aseptically processed drug products in the ISO 5 environment. Sampling of personnel gloves is conducted gowning qualification of the firm's operators.							
h) Insufficient frequency of environmental moni is not conducted after every lot of aseptically							
OBSERVATION 2 Procedures designed to prevent microbiological contamination of drug products purporting to be sterile are not established.							
Specifically,							
a) The firm does not always conduct products produced such as Calcium Gluconate. The firm does not possess the equipment to conduct of the (b)(4) used in the sterile compounding of Calcium Gluconate. Calcium Gluconate is aseptically processed and there is no (b)(4) of the finished drug product.							
b) The firm prepares components in-house via m (b) (4) located in the non-st and maintenance of the equipment.		lizing the here is no written procedure	(b) (4); model outlining the use				
	c) The (b)(4) does not continuously monitor chamber temperature or pressure. In addition, the firm has not demonstrated through validation that the adequate for the sterilization of rubber stoppers for aseptically processed drug products.						
d) Glass vials used for aseptically processed drug products are prepared by the firm via dry-heat depyrogenation utilizing (b) (4). There is no written procedure outlining the use and maintenance of the equipment.							
EMPLOYEE(B) SIGNATURE			DATE ISSUED				
SEE REVERSE OF THIS PAGE Joey V. Quitania, Investigator Linda Thai, Investigator Timothy T. Kapsala, Investigator Marcus F. Yambot, Investigator Marcus F. Yambot, Investigator							
FORM FDA 483 (09/08) PREVIOUS EDITION OBSOLETE	INSPECTIONAL OBSERV	VATIONS	PAGE 2 OF 5 PAGES				

DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION					
DATE(8) OF INGPECTION					
12/03/2013 - 01/09/2014*					
FEINUMBER					
3007200605					
stry					
NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED					
TO: Troy A. Albright, Owner / Pharmacist in Charge					
STREET ADDRESS					
5949 E University Dr					
THE TENTON OF THE PROPERTY OF					
TYPE ESTABLISHMENT INSPECTED					
Producer of Sterile Drug Products					

e) The the continuously monitor temperature or time. In addition, the firm has not demonstrated through validation that the oven cycle is adequate for the depyrogenation of glass vials for aseptically processed drug products.

OBSERVATION 3

Each batch of drug product purporting to be sterile and pyrogen-free is not laboratory tested to determine conformance to such requirements.

Specifically,

Finished product Sterility testing is not always conducted for aseptically processed drug products. For example, Calcium Gluconate 10% Injectable vials, Lot# 117433@15 produced on 11/07/13 was not sampled for USP sterility testing. In addition, an endotoxin analysis was not performed.

OBSERVATION 4

Protective apparel is not worn as necessary to protect drug products from contamination.

Specifically,

There is no provision for protection of exposed skin such as the areas of the face around the eyes and area around the neck within the cleanroom environment. The firm's written procedure for gowning for sterile operator's, SOP 9.050, "Required Garb for Buffer or Clean Area Access" revised 01/31/13, describes the use of non-sterile gowning within the cleanroom environment. The firm's uniform components for entry in the cleanroom includes: low particulate gowns, hair covers, shoe covers, face masks, and powder free gloves. It was explained that operators compounding aseptic drugs use sterile gloves; however, there are provisions in the SOP to allow for the use of non-sterile gloves during aseptic compounding.

FACILITIES AND EQUIPMENT SYSTEM

OBSERVATION 5

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

Specifically,

Certification conducted by an outside contractor for the firm's ISO 5 environments used to aseptically process drug products

SEE REVERSE OF THIS PAGE	Joey V. Quitania, Investigator Linda Thai, Investigator Timothy T. Kapsala, Investigator Marcus F. Yambot, Investigator	01/09/2014
FORM FDA 483 (09/08)	PREVIOUS EDITION OBSOLETE INSPECTIONAL OBSERVATIONS	PAGE 3 OF 5 PAGES

DEPARTMENT OF HEALTH AND HUMAN SERVICES							
DISTRICT ADDRESS AND PHON		JG ADMINISTRATION	DATE(6) OF INSPECTION				
19701 Fairchild			12/03/2013 - 01/09/	2014*			
Irvine, CA 92612			FEI NUMBER	2022			
(949) 608-290	and the second s		3007200605				
Industry Info	rmation: www.fda.gov/oc/indu	istry					
	Albright, Owner / Pharmacist	t in Charge					
THE RESERVE TO SERVER STATE OF THE SERVER STAT	ulations Services LLC dba	5949 E Univ	ersity Dr				
RX Formuation	s Serv.	3343 B outversity bi					
CITY, STATE, ZIP CODE, COUNT		TYPE ESTABLISHMENT INS					
Mesa, AZ 852	05-7435	Producer of	Sterile Drug Produc	ts			
recording made of	g smoke studies to demonstrate the air flo the smoke study to confirm that the airflor e studies conducted in the ISO 7 IV clean	w is smooth, lamin					
OBSERVATION							
Written procedures for cleaning and maintenance fail to include description in sufficient detail of methods, equipment and materials used and description in sufficient detail of the methods of disassembling and reassembling equipment as necessary to assure proper cleaning and maintenance.							
Specifically,							
The firm's written procedures are deficient in that they do not include sufficient detail regarding the cleaning of the following: a) Cleaning of the firm's autoclave for the sterilization of rubber stoppers used in sterile compounded drug products does not include inspection to assure that the equipment is visually clean. On 12/10/13, during a walkthrough of the facility, the particles. b) There are no written instructions provided to technicians that detail the cleaning of the particles. c) There are no written instructions provided to technicians regarding the cleaning of the products. c) There are no written instructions provided to technicians regarding the cleaning of the firm's portable dehumidifier unit. The dehumidifier is used within the ISO 7 cleanroom during times when humidity is high, i.e. during monsoon storms.							
				L DATE IONIE			
	JOCY V. Quitania, Investigator	XVIF	A second	DATE ISSUED			
SEE REVERSE OF THIS PAGE	Linda Thai, Investigator Timothy T. Kapsala, Investigator Marcus F. Yambot, Investigator	WEI		01/09/2014			

DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION DISTRICT ADDRESS AND PHONE NUMBER DATE(S) OF INSPECTION 19701 Fairchild 12/03/2013 - 01/09/2014* FEI NUMBER Irvine, CA 92612 (949) 608-2900 Fax: (949) 608-4417 3007200605 Industry Information: www.fda.gov/oc/industry NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED Troy A. Albright, Owner / Pharmacist in Charge FIRM NAME STREET ADDRESS Zions RX Formulations Services LLC dba 5949 E University Dr RX Formuations Serv. CITY, STATE, ZIP CODE, COUNTRY TYPE ESTABLISHMENT INSPECTED Mesa, AZ 85205-7435 Producer of Sterile Drug Products

OBSERVATION 7

There is a failure to thoroughly review any unexplained discrepancy whether or not the batch has been already distributed.

Specifically,

(b) (4) cleanroom certification conducted by a third party in July 2013, HEPA filter leaks in the firm's ISO 7 During a IV cleanroom were reported to the firm and a negative pressure condition of the rooms to the non-sterile areas was detected. The ISO 7 IV cleanroom houses the ISO 5 hood environments used to compound aseptic drug products. The firm replaced two HEPA filters in the cleanroom suite in response to the leaks, however, there was no investigation performed to determine the cause of the equipment failure and/or impact to compounded drug products produced under these conditions.

OBSERVATION 8

There is no written testing program designed to assess the stability characteristics of drug products.

Specifically,

Beyond use dates and/or Expiration dates placed on drug products by the firm are not supported by stability studies of actual products.

For example, Calcium Gluconate is labeled by the firm with an expiration date of 30 days from the date of compounding. There is no stability study data to support this time period. It was explained that the 30 day time period was established based on a literature reference.

* DATES OF INSPECTION:

12/03/2013(Tue), 12/04/2013(Wed), 12/05/2013(Thu), 12/06/2013(Fri), 12/10/2013(Tue), 12/11/2013(Wed), 12/19/2013(Thu), 12/20/2013(Fri), 01/08/2014(Wed), 01/09/2014(Thu)

EMPLOYEE(S) SIGNATURE

Joey V. Quitania, Investigator Linda Thai, Investigator Timothy T. Kapsala, Investigator Marcus F. Yambot, Investigator

Jegnitania 01/09/14 Ma I. 14 01/09/14

DATE ISSUED

01/09/2014

FORM FDA 483 (09/08)

SEE REVERSE

OF THIS PAGE

PREVIOUS EDITION OBSOLETE

INSPECTIONAL OBSERVATIONS

PAGE 5 OF 5 PAGES