	DEPARTMENT OF HEAL FOOD AND DRUG		
Maitland, FL	Place, Suite 200		DATE(S) OF INSPECTION 8/22/2016-8/31/2016* FEI NUMBER 3006412304
NAME AND TITLE OF INDIVIDUA	AL TO WHOM REPORT ISSUED	-	<u> </u>
Riccardo D. F	Roscetti , President & CEO	STREET ADDRESS	
	iotechnology, Inc	Territoria de la companya del companya del companya de la companya	Of Commerce Blvd Ste 600
Boca Raton, I	FL 33487-3633	Outsourcing Facility	
observations, and do observation, or have action with the FDA		arding your con action in respor it this informati	
OBSERVATION Procedures designate not followed Specifically, A. During to the (b) (4) which is B. The	gned to prevent microbiological cond. he (b) (4) vial filling operation	of Hydroxo nician (b) (4) orm fingerti 01 3/16 "G	loved Fingertip Sampling."
D. The med Verifica scenario in that it	aning the classified areas. The exterior from the sterile package and continuition fills performed in 2015 as per SC tion" were limited to does not represent worst case conditions.	rior surface mous use. OP 03-07.01	O 5 hoods during aseptic operations and s of these bottles are not re-sanitized after 1 1/14 "Personnel Aseptic Media Fill (b) (4) This ddition, documentation was not adequate
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INSPECTIONAL OBSERVATIONS

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KRS Global Bi	iotechnology, Inc	791 Park Of (Commerce Blvd	Ste 600
Boca Raton, I		Outsourcing D	2077	
c. 7 d. F E. The med Verifica a. I b. 7 c. I d. 7	The results of the positive control. The lot number and expiration da Environmental and fingertip sample and fills performed in (b) (4) as pertion" revised on 3/9/16 requires. However, documentation to number of vials and stoppers total number of vials actually fill incubator used and temperature refine results of the positive control. Environmental and fingertip samples.	te of the media (not pling SOP 03-07.01 "Per on lacked: used led and incubated eadings is	* **	02
	ipment media fills performed on (b) (4) uate in that only	(b) (4) as per SOP PR (b) (4		(b) (4) Media Fill" was
drug pro	lation and media fill has been per ducts such as L-Asparaginase 10 zation (b) (4) is included in batch i	,000 IU/Vial and no	en and the second of the second of the second of the second of	and the second s
Validation reasons:	s such as Carnitine 75 mg/mL via on performed between 1/26/16 an (b) (4)	nd 7/25/16 for the fications of the	equately validate (b) (was not adequate	d. The (b) (4)
SEE REVERSE OF THIS PAGE	employee(s) SIGNATURE Ileana Barreto-Pettit, In		X Ileana Barreto-Pett Ileana Barreto-Pett t Investigator Spred by: Ileana Barreto-pettt 6	
FORM FDA 483 (09/08)	PREVIOUS EDITION OBSOLETE	INSPECTIONAL OBSERV	/ATIONS	PAGE 2 OF 11 PAGES

	TH AND HUMAN SERVICES G ADMINISTRATION
DISTRICT ADDRESS AND PHONE NUMBER 555 Winderly Place, Suite 200	DATE(S) OF INSPECTION 8/22/2016-8/31/2016*
Maitland, FL 32751	FEI NUMBER 3006412304
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NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED	<u> </u>
Riccardo D. Roscetti , President & CEO	STREET ADDRESS
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CITY, STATE, ZIP CODE, COUNTRY	TYPE ESTABLISHMENT INSPECTED
Boca Raton, FL 33487-3633	Outsourcing Facility
c. The (b) (4) were not establish 34.01 01/14 "Sterilization by	compounding supplies, and the (b) (4) not been validated. led and documented for the (b) (4) . SOP 07- (b) (4)) does not specify (b) (4)
d. Appropriate the product to I. Batch production records (Formulation she document the (b) (4) used and the sterilization (b) (4).	(b) (4) (b) (4) ets) for (b) (4) sterilized drug products do not
documented the results after incubation. In sterilized on 5/24-26/16 were inconcl 6/6/16. These results had not been reviewe	the date of reading and the initials of the person who addition, usive because they were incubated for too long until d by the Pharmacist in Charge or the Quality Unit, a corrective and preventive action was not taken. es not include (b) (4) and the (b) (4) In addition, there is no documentation to show used for vials and glassware are reviewed and
SEE REVERSE OF THIS PAGE EMPLOYEE(S) SIGNATURE Ileana Barreto-Pettit, Inve	stigator X Ileana Barreto-Pettit Dara Barreto-Pettit Ileana Barreto-petti - S DATE ISSUED 8/31/2016

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FIRM NAME		STREET ADDRESS	
KRS Global B:	iotechnology, Inc	791 Park Of	Commerce Blvd Ste 600
	FL 33487-3633	Outsourcing	370790
and glas Inadequate on 3/17/201	SE 18	red on 5/6/16.	to the depyrogenation (b) (4) of vials rervation from the FDA-483 issued
equipment to pr Specifically, the	ing areas are deficient regarding the coduce aseptic conditions. e suitability and efficacy of disinfec	ting agents and c	
ISO 5, ISO 7 ar		nrooms. For exampounding Area	
B. A spori	cidal disinfectant is not used in the body (4) as a sport all disinfectant.	ISO 5 hoods. The	the firm reportedly uses $(b)(4)$ $(b)(4)$
Mainten 2016 did the appr explana a. (b. (om Cleaning Form 02-04B.01 01/14 ance Log for IV Rooms and Ante A d not document the opriate disinfectant and tions for not performing (b) (4) cleaning (b) (4) from 7/5-7/18/2016 Cleanroom from 8/4-8/20/2016 Cleanroom from 8/8-8/20/2016	Areas" reviewed for cleaning In addition, to an ing during the	ing agent used to confirm usage of there are no documented
SEE REVERSE OF THIS PAGE	EMPLOYEE(S) SIGNATURE Ileana Barreto-Pettit, Inves	stigator	R/31/2016 X Ileana Barreto-Pettit Reana Barreto-Pettit Investigativ Speed by: Ikana Barreto-pettt -5

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d. Corridor from 8/3-8/20/2016

- D. (b) (4) mop heads and buckets are not dedicated for ISO 5 & ISO 7 rooms and surfaces (i.e. walls, ceiling or floors) and the (b) (4) sterilization (b) (4) for the mop heads has not been validated. On 8/22/16, non-dedicated wet and used cleanroom mops were observed inside a bucket in the ISO 8 corridor; this was not in accordance with section XII.F of SOP 02-04.01 which requires mops to be hung vertically and buckets to be inverted to allow drying. On 8/30/16 the clean plastic buckets stored on a shelf were observed with dirt residue and rust looking particles.
- E. The design of the trash cans in the ISO 5 and ISO 7 cleanrooms is not adequate in that they have lids that have to be pushed down with hands to throw away trash such as wipes and packaging components. In addition, these lids were not properly cleaned and sanitized as several of them were observed dirty and stained during compounding operations.
- F. The following compounding equipment in the ISO 5 and ISO 7 cleanrooms was observed not properly maintained, cleaned and sanitized after the rooms were reportedly cleaned:
 - a) ISO 7 Cleanroom (b)(4):
 - i. A (b) (4) that looked rusty and with peeling paint was being used in the ISO 5 hood during formulation of a sterile drug product on 8/22/16.
 - ii. The (b) (4) light fixtures containing (b) (4) fluorescent lights each inside the ISO 5 hood were missing their cover making it difficult to clean.
 - iii. The air vent cover below the surface of the ISO 5 hood was observed with rust.
 - b) ISO 5 Cleanroom (b) (4)
 - i. placed on a shelf was observed dirty, rusty and with peeling paint.
 - ii. The control panel to turn on the motor and lights of the ISO 5 hood where the (b) (4) is housed was observed stained and dirty.
 - iii. The air vents along the edge of the hood surface in the (b) (4) ISO 5 hood were observed dirty with dried product spills.
 - iv. The light fixture inside the ISO 5 hood containing (b) (4) tubular fluorescent lights/exposed wiring was missing its cover making it difficult to clean.

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OBSERVATION 3

Aseptic processing areas are deficient regarding air supply that is filtered through high-efficiency particulate air filters under positive pressure.

Specifically, the following deficiencies were observed during the walk-thru inspection on 8/22/16:

- A. The differential pressure readings of each ISO 5 and ISO 7 cleanroom are only monitored and documented (b) (4) and not throughout aseptic compounding operations.
- B. The differential pressure reading of the ISO 7 corridor adjacent to the ISO 8 corridor is not monitored and recorded daily. During compounding operations on 8/22/16, the gauge labeled as "Corridor (without a calibration sticker) was observed reading "0" PSIG and no corrective action had been taken. It was later reported that the tubing leading to the gauge was pinched and it was fixed on the same day. It was also observed that the sliding door between the ISO 7 anteroom and ISO 8 corridor does not close completely.
- C. A ceiling tile above the (b) (4) in ISO 5 cleanroom was observed not properly seated on its frame due to plastic tubing improperly installed from the ceiling to the (b) (4)
- D. The qualification of the ISO 5 Cleanroom did did not include smoke studies to demonstrate HEPA filtered laminar airflow over the partially stoppered filled vials transferred from the (b) (4) across the room.
- E. A ceiling tile directly above the (b) (4) in the ISO 8 Prep room was observed missing during the (b) (4) process of glass vials with (b) (4)
- F. Two bottom wall tiles in ISO 7 Cleanroom and adjacent to the ISO 8 corridor were observed not properly seated on their frame thus creating a gap.

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OBSERVATION 4

Aseptic processing areas are deficient regarding the system for monitoring environmental conditions.

Specifically,

- A. SOP 03-06.01 04/15 "Surface Sampling Procedures" is not followed in that surface samples of the (b) (4) are not taken (b) (4)

 Also, surface samples taken in th (b) (4)
- B. Raw data (i.e. sample collection date & time, taken before or after cleaning, incubation temperature & time, and reading date) for environmental monitoring of surface and viable air in the (b) (4) for the 2016 1st and 2nd Quarter reports and thereafter was not available. On 8/29/16, dried out media plates and strips for surface, air and fingertip samples collected between 8/13 and 8/24/16 were observed inside (b) (4) Incubator A and there was no documentation showing when they were placed in the incubator and why they had not been read after their required incubation time.

OBSERVATION 5

Clothing of personnel engaged in the manufacturing and processing of drug products is not appropriate for the duties they perform.

Specifically,

A. The face masks and plastic shields worn by aseptic technicians during sterile compounding operations in the ISO 5 hoods and ISO 5 cleanrooms are not sterile.

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Maitland, FL 32751	FEI NUMBER
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- - a. There was no demarcation line in the anteroom to divide the clean and dirty areas as specified in the SOP.
 - b. SOP does not specify hand washing procedure. A sink and (b) (4) different soaps were observed in the ISO 8 corridor: non-antimicrobial hand soap, (b)(4)(b) (4) however, according to the SOP hand washing.
 - c. Donning sequence of sterile gown, face mask and shield, and sterile gloves is not clearly described and consistently followed by technicians. For example, a technician was observed donning non-sterile gloves before donning sterile gown; the same technician was observed another day donning sterile gloves prior to donning sterile gown; another technician was observed donning sterile gown with bare hands. also allowed the pants to touch the floor on the dirty side of the newly established demarcation line in the anteroom.
 - d. Wrapped gowning items stored in open bins in an ISO 8 prep room are not wiped and sanitized prior to entering them into the ISO 7 gowning area. A ceiling tile was observed missing in the ISO 8 prep area.

OBSERVATION 6

The labels of your outsourcing facility's drug products are deficient.

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DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION				
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Specifically, the labels of your outsourcing facility's drug products do not include information required by section 503B(a)(10)(A). The following information is not found on your drug product labels:

- a) The statements "This is a compounded drug" and "Not for resale."
- Example(s) of drug product labels that do not contain this information:
 - Anastrazole, Compounded 0.5 mg capsule
 - Naltrexone 4.5 mg Tablet
 - b) The statement "Office Use Only."

Example(s) of drug product labels that do not contain this information:

- Rocuronium Bromide, 10 mg/mL
- Glycopyrrolate 0.2mg/mL (PF)
- L-Asparaginase 10,000 iu
- L-Carnitine 170 mg/mL
- Hydroxycobalamin 1 mg/mL
- Methylene Blue 10 mg/mL
- Naltrexone 4.5 mg Tablet
- c) The address of applicable outsourcing facility.

Example(s) of drug product labels that do not contain this information:

- Rocuronium Bromide, 10 mg/mL
- Glycopyrrolate 0.2mg/mL (PF)
- Methylene Blue (PF) 10mg/mL (1%) Injectable
- L-Carnitine 75 mg/mL Injectable
- d) The established name of the drug.

Example(s) of drug product labels that do not contain this information:

- Human Chorionic Gonadotropin 10,000 iu/Hydroxo B12
- e) The storage and handling instructions.

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DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION				
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Example(s) of drug product labels that do not contain this information:

- Anastrazole, Compounded 0.5 mg capsule
- Naltrexone 4.5 mg Tablet
- f) A list of active and inactive ingredients, identified by established name and the quantity or proportion of each ingredient, is not found on your product labels.

Example(s) of drug products labels that do not contain this information:

- Anastrazole, Compounded 0.5 mg capsule
- Rocuronium Bromide, 10 mg/mL
- Glycopyrrolate 0.2mg/mL (PF)
- L-Asparaginase 10,000 iu
- L-Carnitine 170 mg/mL
- Hydroxycobalamin 1 mg/mL
- Methylene Blue 10 mg/mL
- Human Chorionic Gonadotropin 10,000 iu/Hydroxo B12 5mg
- Ascorbic Acid 500mg/mL (PF)
- Lidocaine 4%/Tetracaine 0.5%/Epinephrine 0.18%
- Naltrexone 4.5 mg Tablet

*DATES OF INSPECTION

8/22/2016(Mon),8/23/2016(Tue),8/24/2016(Wed),8/25/2016(Thu),8/26/2016(Fri),8/29/2016(Mon),8/30/2016(Tue),8/31/2016(Wed)

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