	TH AND HUMAN SERVICES G ADMINISTRATION
DISTRICT ADDRESS AND PHONE NUMBER	DATE(S) OF INSPECTION
6000 Metro Drive, Suite 101	3/19/2018-4/12/2018*
Baltimore, MD 21215	1110315
(410)779-5455 Fax: (410)779-5707	
NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED	
Kimberly L. Kupec, Head of OSD Quality Mo	organtown
FIRM NAME	STREET ADDRESS
Mylan Pharmaceuticals Inc.	781 Chestnut Ridge Rd
CITY, STATE, ZIP CODE, COUNTRY	TYPE ESTABLISHMENT INSPECTED
Morgantown, WV 26505-2730	Finished Drug Product Manufacturer

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

The responsibilities and procedures applicable to the quality control unit are not fully followed.

Specifically,

Specifically, we observed numerous instances of a lack of appropriate oversight by the Quality Unit and a failure to follow your procedure, "Organization of the Quality Unit" (Document Number: MPI-SOP-ADM-ALL-0004, Version 7.0, Effective 30 OCT 2017). The observations that follow demonstrate ways in which the Quality Unit:

- Was not always "involved in the approval of change controls, as applicable to commercial product" (Section 6.13)
- Did not adequately "review and approve equipment and facilities associated with the manufacture, packaging, labeling and holding of drug product" (Section 6.14)

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	or Employee of Other Federal Agencies Ko U Min, Chemist/Biologist Alison N Stieg, Chemist/Biologist		

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- Did not properly "approve ... validation protocols/reports for production processes, analytical methods or electronic systems that may impact the strength, quality, safety, efficacy, identity or purity of the finished drug product or API" (Section 6.15)
- Did not "along with Senior Management ... ensure continuing suitability and effectiveness of quality systems through governance including, but not limited to, Trending Review Board, Annual Product Review, Self-Inspection, and Quality Site Council" (Section 6.29)
- Did not ensure "compliance with all applicable regulations" (Section 6.30)

FACILITIES & EQUIPMENT SYSTEM

OBSERVATION 2

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

Specifically,

A. Your Quality Unit (QU) failed to adequately validate the cleaning processes of all manufacturing equipment and utensils shared between your 230 oral dosage drug products (potent and non-

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potent) to ensure no cross-contamination of active ingredients and detergent occur between products. Manufacturing equipment and utensils are shared between non-potent and potent drugs including Fentanyl Citrate (potent opioid), Liothyronine Sodium (hormone), Prednisolone Sodium Phosphate (steroid), (b) (4)

Cabergoline (potent dopamine agonist), and (b) (4)

as well as low-therapeutic range drugs such as Levothyroxine Sodium. Some of the deficiencies include but are not limited to:

- 1) The Cleaning Validation Reports for the worst-case drug products for each category type (i.e. immediate release tablets, extended-release tablets, immediate release capsules, extended release capsules, mixed products, high potent, powders, and high volume products) were limited to (b) (4) swab test results from at least(b) (4) pieces of equipment including (b) (4) equipment for different drug products manufactured between 2010 and 2016 without any documented rationale for their selection to represent validation of the cleaning process. In addition, results were documented only as "Pass" or "Fail" for the selected equipment, and there was no interpretation of the impact of the entire manufacturing equipment train against the residue limits in the finished drug product. For example, Report for Cleaning Validation/Verification Program Utilizing (b) (4) (MPI-SOP-QAS-CLV-0004)-2010 approved on 10/5/16 includes a listing of ten (10) drug products identified by your firm as high-risk products for which test results for "Chemical" and "Micro" were reported as "Pass" or "Fail" for pieces of equipment per product that were swabbed between 2010 and 2013. There was no documented rationale for their selection and an evaluation of the overall residue detected across the manufacturing equipment train.
- 2) According to the 2016 Annual Cleaning Validation Program Review, approved a year

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late on 2/28/18, trends for inadequate cleaning were identified for (b) (4) departments that were evaluated: (b) (4)

departments; however, during the inspection, significant deficiencies in the cleaning process of the (b) (4) encapsulator were identified. Your Quality Unit's conclusion in this report that "interim controls have been implemented for each identified department and therefore sufficient control exists to ensure product safety" was not supported by the cleaning execution failure trends identified in most departments. In addition, significant deficiencies found during this inspection in cleaning procedures, cleaning validation, swabbing procedures and testing, and inadequate investigations do not support your conclusion that sufficient controls exist to ensure product safety.

3) Similarly, according to the Morgantown Cleaning Validation: 2017 Annual Program Review approved on 3/16/18, your firm continues to experience about a 60 swab failure for cleaning [68 out of 60 swab failure initial swabs taken from selected manufacturing equipment during Jan-Dec 2017 produced aberrant results (41 failures and 27 inconclusive results)] indicating that corrective action has not been effective. Furthermore, the 68 cleaning failures documented in the report did not include 52 visual cleaning failures that occurred in Manufacturing since March 2017 for which a swab or an investigation were not performed. In addition, swab results that generated an unknown or extraneous peak were categorized as "inconclusive" and invalidated if a re-swab in another location of the equipment yielded passing results. Your Quality Unit's decision for invalidating swab results with extraneous peaks based on re-swab results in another location of the equipment lacked sound scientific rationale.

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	and QA after every clean. The root of orocedures (MPI-SOP-MFG-ENC-0	on Report (MIII of the encapsular te powder). The USP 100 mg ding to your in the powder that the powder that the powder that the boundary of the between properties as multiple cause was identificantly, the years was identificantly as well as the linspections of the	R) # 1415886 was opened be been deserved in the encapsulated tion campaign of (b) (4) The previous drug products, consists of two yellows are producted to surfaces and an AQL inspection, the previous drug producted the previous drug producted the previous drug producted the failure of the failure of manufactured the failure of manufactured the equipment before resonance Log Book for (b) (d) Italian and producted the failure of the clean and the producted the failure of the equipment before resonance Log Book for (b) (d) Italian and producted the failure of the clean and factorized the failure of the	d on 1/10/18 tion machine batches tt, Mono tablets owder dust and his yellow and on the ve the (b) (4) as observed anufacturing hing e (b) (4) ring and QA elease. Your hind similar eaning 4) # 2090 ifferent drug and Verapamil
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	Alison N Stieg, Chemist/Biol	ogist		

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Mylan Pharma	ceuticals Inc.	781 Ches	tnut Ridge Rd	
Morgantown,	WV 26505-2730	TYPE ESTABLISHME Finished	Drug Product Manufact	urer
	product called (b) (4) (b) (4) Encapsulator # required by your writt (b) (4) (Document Number: 15 Jan 2016). No cleathe equipment for use product processed on Capsules USP 10mg/2 Currently your cleanin (b) (4) product in (b) (4) coupled with Encapsulator (b) (4) in the process of clear 2. The Quality Unit fails	wabbed for a they were 9/16, you put 2090. At the ten procedure werifice to encapsure this equipm 20mg Lot # ang validation terms of control (b) (4) aning these put to docume the to docume the terms of control (b) (4) aning these put to docume the terms of control (b) (4) aning these put to docume to docume the terms of control (b) (4) aning these put to docume to docume the terms of control (b) (4) aning these put to docume the terms of control (b) (4) and (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d	active residue after manufaral always swabbed and had processed a batch of a development time, this product was not retitled "(b) (4) QAS-GEN-0001, Version 5 cation was performed prior late other commercial product at the time of this product was Amlodipine/Bena (3074852 on 02/25/16. At the time of this every were not being fully	opmental on (b) (4) ot evaluated as (constitution). on (b) (4) ot evaluated as (constitution). on (constitution) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d
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were unable to assess the entirety of cleaning verification swab samples taken and analyzed. In addition, several employees mentioned that there have been multiple instances in which swab samples were "missed", in which equipment was not swabbed but was used to further manufacture subsequent products. The equipment not swabbed but used to further manufacture likely includes batches distributed within the US. Since a system has not been established to track cleaning verification swab samples, we could not determine the potential impact of the missed swabs.

6) The 2013-2014 cleaning validation recovery studies associated with the recovery of cleaning agen (b) (4) from (b) (4) including (b) (4) (b) (4) have not been completed and reviewed as required, and no subsequent such studies were presented. These cleaning agent recovery studies were initiated to validate the methods to support acceptable removal of detergent after cleaning. (b) (4) is currently and routinely used for equipment cleaning activities at this site.

For example, after production of Fentanyl Citrate buccal tablets 100mcg, lot X17-MTS-043, tablet press #617 was cleaned with (b) (4). This same tablet press was subsequently used in production of Liothyronine Sodium Tablets 5mcg lots 3081575, 3081576, and 3081577.

This same press was also later used in production of the Fentanyl Citrate buccal tablet PPQ batches.

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Kimberly L. Kupec, Head of OSD Qua	STREET ADDRESS

- B. During the walk-through of the manufacturing area on 03/27/2018 we observed the following instances of inadequate equipment cleaning after the equipment and room had been released by the Quality Unit:
 - 1) An unknown crystal-like yellow residue was visually observed on the product support screen of the (b) (4) (Equipment ID #7560) in Room NEX 409.

 According to the (b) (4) (Cleaning Sheet", the equipment cleaning was completed on 03/22/2018 and released by Quality on 03/22/2018. Despite the operator performing the cleaning having prior knowledge that the effectiveness of the cleaning would be evaluated with cleaning swabs on 03/21/2018 and the swabs having passing results, the equipment was observed to not be visibly clean at the time of the walkthrough on 03/27/2018.

The last product manufactured with the equipment was Verapamil HCl SR Tablets, 240mg, Process #3096325 on 03/15/2018. Additionally, this equipment is used, but is not limited to the manufacturing of Verapamil HCl Tablets, Diltiazem HCl ER Tablets, (b) (4) and Zolpidem Tartrate Tablets.

2) Residue was observed on the capsule transport parts and powder dosing parts of the (b) (4) Encapsulator (Equipment ID #3992) located in Room #NEX 372. The equipment is used in the manufacturing process of Diltiazem HCl ER Capsules in various strengths including 120mg, 180mg, and 240mg. According to the (b) (4) Encapsulation Room/Equipment Cleaning Checklist", the cleaning was completed on 03/22/18 and released by Quality on 03/22/18. Note: Refer to additional 483 observations related to cleaning and cross contamination concerns related to (4)

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Encapsulators.

3) Black particles were observed inside the Coater (Equipment ID #653) located in Room #BB-206. According to the (b) (4) Coater – Room and Equipment Cleaning Checklist", the cleaning of the equipment was completed on 03/27/2018 and released by Quality on 03/27/2018. Your firm's Head of Plant Operations explained the particles were from a gasket that was removed from the Coater to reach an area with water spots. The Coater is used in the manufacturing process for various products such as, but not limited to Ciprofloxacin ER Tablets, Perphenazine and Amitriptyline Tablets, and Albuterol.

OBSERVATION 3

Written procedures are not followed for the cleaning and maintenance of equipment, including utensils, used in the manufacture, processing, packing or holding of a drug product.

Specifically,

During a walkthrough of the facility on 3/19/18, room NEX438 was observed to be ready to clean following milling of Verapamil HCl 240mg SR Tablets (Lot #3096325). On 3/20/18, cleaning swab samples were collected from the (b) (4) (#23494) used to process this batch after it was cleaned. A laboratory investigation (LIR #1477185) was opened to document the cleaning swab failure for the active ingredient, Verapamil. The swab failure location was on the (b) (4)

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residue was obs Photographs of parts and the statorn.	nanufacturing investigation (MIR #1 erved on the equipment after the act the equipment taken during the investinless-steel product contact surfaces	ive swab fa stigation sh s are pitted	ailure on the (b) (4) #23494 nows residue on various production and scraped. The gasket was	4 in NEX438. duct contact s found to be
	ocedure titled (b) (4) n Section 8.1.1 that the cleaning che		Document Number MPI-SC ompleted when performing a	MANAGEMENT OF THE PARTY OF THE
second person s	ecklist, completed on 3/19/18, failed ign off failed to document any probled to document with the	lems with th	ne equipment. The QA chec	
and if the gasker	the procedure states that "area leads t damage appears to have occurred o will be initiated"	The state of the s		The state of the s
and the second and the second second	asket was not identified until after a tion was opened.	a cleaning s	wab test result was found to	be positive
OBSERVATIO	ON 4			
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Procedures for the cleaning and maintenance of equipment are deficient regarding inspection of the equipment for cleanliness immediately before use.

Specifically,

C. Your firm's written procedure titled '(b) (4)

"(Document Number MPI-SOP-QAO-OPS-0032) is deficient in that it does not require an investigation to be opened when equipment is found to be not visibly clean upon AQL inspection.

After it is determined that a full re-clean is needed to clean the equipment and/or room is a Cleaning Effectiveness Form completed. However, section 9.2 of the procedure states that "near misses will also be tracked".

After equipment is initially cleaned, a second person visually inspects the equipment. If the equipment is found to be not visually clean during the second person check, then the equipment is re-cleaned. The number of times that equipment needs to be re-cleaned after the second person check is not recorded, tracked or trended. Section 3.3.1 of the procedure states that it is site leadership responsibility to "review and communicate cleaning effectiveness tracking and trending metrics".

Since March 2017, there have been a total of 52 instances of equipment or processing areas found to be not visibly clean upon AQL inspection. Additionally, the packaging department has not tracked or reported cleaning data as part of this program.

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Since 01/05/2017, there have been 21 instances where equipment was found to be not visually clean after the initial clean, second person check, and AQL inspection had already been performed. These instances were detected only when equipment was about to be swabbed for cleaning verification or the cleaning swabs tested positive for active or detergent residues.

6 of the 21 instances, were for active ingredient detection of products considered to be either

(b) (4) and/or classified as a high cleaning risk (based on (b) (4) or a (b) (4)

b) (4) product including, but not limited to, Paliperodine, Levothyroxine, Prednisolone, and Buprenorphine.

These instances occurred despite operators that perform the cleaning being aware that cleaning swabs would be collected prior to them cleaning the equipment.

- D. During an inspection of the manufacturing area, we observed Encapsulation (b) (4) 2610 in NEX361 which was cleaned and in the process of being reassembled. We requested the previous cleaning verification swab data for this equipment but was informed by the cleaning validation team that there is no record of this piece of equipment being swabbed ever.
- E. In review of the cleaning verification process we observed Divalproex Sodium ER Tablets compressed using (b) (4) Tablet Press #1920 and #60. At least 4 LIRs have been opened due to cleaning verification swab failures for this product using this Tablet Press #1920. We requested

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all cleaning verification swab data for (b) (4) Tablet Press#60 but was informed by the cleaning validation team that (b) (4) Tablet Press #60 was never swabbed. Tablet press #60 was used at least (b) (4) for over five different products including Divalproex Sodium ER Tablets.

LABORATORY SYSTEM

OBSERVATION 5

Laboratory controls do not include the establishment of scientifically sound and appropriate test procedures designed to assure that drug products conform to appropriate standards of identity, strength, quality and purity.

Specifically,

- F. Laboratory analyses are repeated until passing results are obtained. In our limited review, we observed the following instances in which failures for cleaning verification tests for product or detergent residues were obtained. Investigations conducted in each instance included various actions (including re-cleaning and re-swabbing), but they failed to consider a thorough assessment of the adequacy of the cleaning procedure.
 - 1) While reviewing swab sample analysis for active residue for Divalproex Sodium ER Tablets manufactured on the (b) (4) Tablet Press #1920 or (b) (4) #361, going back to

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DEPARTMENT OF HEAL	TH AND HUMAN SERVICES
FOOD AND DRUG	ADMINISTRATION
DISTRICT ADDRESS AND PHONE NUMBER	DATE(S) OF INSPECTION
6000 Metro Drive, Suite 101	3/19/2018-4/12/2018*
Baltimore, MD 21215 (410)779-5455 Fax:(410)779-5707	FEINUMBER 1110315
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August 2016, we observed multiple instances of the components of both equipment units being re-cleaned and re-swabbed multiple times until passing results were obtained. For example:

- Following the production of Divalproex Sodium ER Tablets batch# 3078594 in August 2016, cleaning and swabbing was repeated 2 times until passing results were obtained for the (b) (4)

 Tablet Press #1920.
- 2. Following the production of Divalproex Sodium ER Tablets batch # 3082027 in March 2017, cleaning and swabbing was repeated at least five times until passing results were obtained for some components. Two components, the (b) (4) and (b) (4) for the (b) (4) for (b) (4) Tablet Press #1920, were removed from production into the lab for further testing. There has still been no determination into the residues present on these components that were removed from production.
- Following the production of Divalproex Sodium ER Tablets batch # 3085464 in June 2017, re-cleaning and re-swabbing was conducted multiple times until passing results were obtained for some components including (b) (4) and (b) (4) for (b) (4) for (b) (4)
 Tablet Press #1920.
- 4. Following the production of Divalproex Sodium ER Tablets batch # 3090111 in August 2017, re-cleaning and re-swabbing was conducted multiple times for the (b) (4) #361. In

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addition, multiple instances of visual failures were observed in the production area after the full re-clean. The investigation did not determine the source of the failure. 5. Following the production of Divalproex Sodium ER Tablets batch #3092516 in January 2018, re-swabbing was conducted multiple times for the for the form Tablet Press #1920 until passing results were obtained. Upon the initial failed swab results for the for this equipment cleaning validation management determined this part to be worn and unsuitable for continued use and was removed from service without determining the source of the inconclusive result.			batch tiple times for until passing r the [15] [4] termined this moved from			
 During the (b) (4) analysis for detergent residues after the (b) (4) of product Paliperidone ER Tablets 1.5mg, Lot# 3093034, out-of-specification (OOS) results were obtained for the following product contact components: (b) (4) were re-swabbed and re-analyzed three additional times until a passing result was obtained. There is no information on whether cleanings were performed prior to the re-swabbing every time. 						
3) During the (b) (4) analysis for detergent residues after the (b) (4) of product Paliperidone ER Tablets 9mg, Lot# 3094332, OOS results were obtained for the following product contact component: (b) (4) The (b) (4) was re-swabbed and re-analyzed						
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4) 1 t	During the (b) (4) analy the (b) (4) for product Verapamil Tobtained for the following product cre-cleaned and re-swabbed one additional times until a passing analysis.	sis for deterg ablets 240mg	gent residues after the grang, Lot# 3096325, OOS resonent(b) (4)	ults were mponent was
I	5) During the (b) (4) analysis for detergent residues after compression of product Cyclobenzaprine Tablets 10mg, Lot# 3094889, OOS results were obtained for the following product contact component (b) (4) The (b) (4) was re-rinsed and re-swabbed one additional time until a passing result was obtained.			btained for
6) During the (b) (4) analysis for detergent residues after compression of product Ondansetron Tablets 4mg, Lot# 3095187, OOS results were obtained for the following product contact components (b) (4) The (b) (4) were re-cleaned and re-swabbed one additional time until passing results were obtained. G. We observed the practice of conducting (b) (4) on HPLC and GCs prior to official				
analyses. This practice is a corrective action to an observation cited during the November 2016				
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Morgantown, 1	WV 26505-2730	Finished	Drug Product Manufact	urer
corrective proceductive found of the in Atenolo	ve action of allowing for (b) (4) re or limit for conducting (b) (4) d instances in which (b) (4) estances we observed, there were (b) 1 USP API (Batch #402851)	is not a In ou were perfo	erformed prior to official andequate because there is not relimited review of chromatormed for as many as (b) (made within (b) (4)	o defined ata, atography data, atography data, atom In one set for
H. The Quality Unit's retrospective review of (b) (4) on liquid chromatography systems, conducted as a commitment to the Agency, does not include a review of the (b) (4) in project folders not labeled with a product name. For example, the folders related to cleaning and method validations have not been included.				in project
for the (b) (4) value the analysis (b) (4)	used for standardizing e (b) (4) used for (b) (2) is utilized to test more than (b) (4) AP	does not inc the (b) (4) the sample Is and more cal Tablets.	We observed at least 10 La	on the (b) (4) eck of this ate. This s, including aboratory
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OBSERVATION 6

Reserve samples from representative sample lots or batches of drug products selected by acceptable statistical procedures are not examined visually at least once a year for evidence of deterioration.

Specifically,

According to your firm's MPI-SOP-QAC-STB-0002 "Finished Product Retention Samples" rev. 5.0, the annual inspection of the reserve samples is limited to inspection of the labeling and container closure system without visually inspecting the drug product, i.e. tablets and capsules, for signs of deterioration.

PRODUCTION SYSTEM

OBSERVATION 7

There are no written procedures for production and process controls designed to assure that the drug products have the identity, strength, quality, and purity they purport or are represented to possess.

Specifically,

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	Ko U Min, Chemist/Biologist Alison N Stieg, Chemist/Biologist		

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- A. Your firm lacks adequate process controls and procedures to ensure properly qualified tablet presses and validated compression parameters are used for each of the drug products (tablets) manufactured by your firm to ensure process consistency and compliance with in-process and finished product specifications. For example,
 - 1) Your production department routinely transfers tablet presses (a total of various models (b) (4) between production rooms depending on production scheduling needs. This can result in the table press being connected to a

(b) (4)
(b) (4)

Your Quality Unit (QU) failed to:

depending on the design of the production room.

- i. Evaluate the impact of (b) (4) on the on the on the of the powder blend of each drug product to demonstrate that no segregation occurs.
- ii. Establish written procedures to ensure the (b) (4) used during routine production is the same used during Process Performance Qualifications (PPQs) of each drug product.
- iii. Establish written procedures to re-qualify or evaluate the tablet presses after transfer to a different production room. For example, the Installation and Operational Qualification (IQ/OQ) for the (b) (4) (i.e. (b) (4)) Tablet Press # 7666 was performed on 6/21/10 in Room NEX-160 and it was not identified as portable equipment. This tablet press was observed in Room NEX-135 during the compression of Diphenoxylate HCl/Atropine Sulfate Tablets, lot # 3094914 on 3/19/18. Your firm considers all tablet presses as portable equipment moved with

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forklifts but lacks written procedures for their control. No change control or documentation was provided to support this transfer.

2) Written work instructions MPI-DOC-MFG-COP-WI-0024 (b) (4)

and MPI-DOC-MFG-COP-SET-0008 (b) (4) are not consistently followed by operators and potential critical parameters such as compression force and precompression force have not been established for each drug product in tablet form. For example, variability in target compression speeds and compression/pre-compression forces were observed when comparing the Compression Record Sheets for Diphenoxylate HCl/Atropine Sulfate tablets 2.5/0.025 mg as follows:

Batch#	Target Speed Setting (RPM)	Main Compression Force (Actual)	Pre- Compression Force (Actual)
MPI-DOC-MFG-COP-SET-0008 (Approximate Press Start-Up Settings)	(b) (4) recommended speed)	Not specified	Not specified
(b) (4) (1/24/05) Validation	(b) (4) RPMs	Not documented	0.2-3.0
3085839 (4/25/17)	(b) (4) RPMs (b) (4)	7.9-8.9	0.0-0.9
3085840 (4/27/17)	(b) (4)RPMs(b) (4)	8.3-10.4	0.0-0.10
3094914 (3/19/18)	(b) (4)RPMs(b) (4)	4.9-5.20	1.0-1.8

In addition, during the tablet press set-up of Diphenoxylate HCl/Atropine Sulfate 2.5/0.25 mg tablets, lot # 3094914 on 3/19/18, we found that the press start-up settings for this

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DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION				
DISTRICT ADDRESS AND PHONE NUMBER 6000 Metro Drive, Suite 101 Baltimore, MD 21215 (410)779-5455 Fax:(410)779-5707	DATE(S) OF INSPECTION 3/19/2018-4/12/2018* FEI NUMBER 1110315			
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CITY, STATE, ZIP CODE, COUNTRY	TYPE ESTABLISHMENT INSPECTED			
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product as established in MPI-DOC-MFG-COP-SET-0008 '(b) (4) "were not followed because the tablet press being used (Equip. # 7666 (b) (4) was not listed for this product and therefore, there were no start-up settings established. Still, set-up for compression was initiated based on parameters used for a batch manufactured a year prior, and upon interview with the Compression Area Lead, it was found the operator was having issues achieving tablet hardness. Since February 2016, a total of batches of Diphenoxylate HCl/Atropine Sulfate 2.5/0.25 mg tablets have been compressed on a (b) (4) tablet press and released, even though start-up settings for this tablet press have not been established as per MPI-DOC-MFG-COP-WI-0024 and MPI-DOC-MFG-COP-SET-0008.

- B. Your firm failed to implement adequate process control parameters for the manufacturing of Metolazone 2.5 mg Tablets to ensure the drug product always meets finished product specifications. From March 2017 to October 2017, your firm opened five (5) Manufacturing Investigation Reports (MIRs) (PR#s: 1142941, 1188055, 1244747, 1248472 and 1344323) for OOT/OOS content uniformity results involving seven (7) batches (lot #s: 3079406, 3085880, 3082388, 3082389, 3082390, 3082391 & 3089248), of which one (lot # 3082388) was rejected for OOS content uniformity results. A product trend for atypical content uniformity results was identified on 6/9/17 as PR# 1225491. However, corrective and preventive actions (CAPAs # 1009442 & 1205749) such as (b) (4)
 - (b) (4) have not successfully mitigated powder segregation in the blend and content uniformity issues in the finished drug product.
- C. Your Quality Unit (QU) implemented changes outside of the approved specifications and processing parameters ranges for weight and hardness of Doxycycline Hyclate Delayed-release

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Morgantown, W	V 26505-2730	Finished	Drug Pro	oduct Manufact	urer
Tablets, USP 200 mg tablets (ANDA 090431) (PR # 918028) Tablets, USP 200 mg tablets (ANDA 090431) Tablets, USP 200 mg tablets (ANDA 090431) Tablets, USP 200 mg tablets (ANDA 090431) Tablets, USP 200 mg tablets ability (Mithout detablets) Tablets, USP 200 mg tablets ability					
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Morgantown, WV 2	6505-2730		rug Product Manufact	urer
OBSERVATION 8 Written production a	and process control procedures	are not follow	ved in the execution of pro	oduction and
Specifically,	••••			
1. Your firm's Work Instructions such as MPI-DOC-MFG-COP-WI-0021 (b) (4) (b) (4) (b) (4) (c) "MPI-DOC-MFG-COP-WI-0024 (b) (4) (d) "containing detailed instructions about compression set-up cannot be accessed by operators through your firm's electronic document system when conducting operations and they are not allowed to print them in order to be able to follow the specific steps. 2. At 0548 on 3/19/18, Clozapine 200mg Tablets (Lot# 3092858) started compression in Room #NEX138 on Tablet Press #2748. At (b) (4) on the same day, the machine was shut down due to tablets "sticking". At (b) (4) on the same day, (b) (4) separate in-process quality checks recorded in the room activity log that the machine was down. At (b) (4) which could be seen (b) (4) from outside the room, was stored uncovered and exposed to the room environment.				
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It was determined that the product was left uncovered when the operator left for the shift change around the time the machine was shutdown. No operator was assigned to continue processing the product during the next shift. The subsequent QA in-process checks did not document that the product was exposed and did not resolve the problem by covering the product as required by your written procedure titled (b) (4)

(b) (4)

'(Document Number MPI-SOP-MFG-GEN-0009).

There was no documentation in the batch record or in any other record that the product had been left exposed to the room environment during this time.

OBSERVATION 9

Changes to written procedures are not drafted, reviewed and approved by the appropriate organizational unit and reviewed and approved by the quality control unit.

Specifically,

Special instructions for manufacturing operators (e.g. using (b) (4)

(b) (4) are entered into the LIMS system as a result of investigations or CAPAs approved by the Quality Unit (QU) but without going through your change control system as required by MPI-SOP-QAC-CHG-0005(b) (4) Change Management Procedure for Non-Regulatory Changes, MPI-SOP-QAC-CHG-0004(b) (4) Change Management Procedure for Regulatory Changes, and/or MPI-SOP-QAS-EQV-0001 Change Control Procedures for Mylan cGMP Equipment and Systems. In addition, your QU was not able to provide a listing of all manufacturing changes made within the LIMS system without a change control since November 2016 as these changes are not tracked, reviewed or

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Morgantown, V	W 26505-2730	Finished Dr	ug Product Manufact	urer
controls to mitiguidentified include (b) (4) (b) (4) press speed to change controls	approved. For example, CAPA PR# 1205749 was opened on 5/18/17 (not closed yet) to determine controls to mitigate content uniformity issues in Metolazone 2.5 mg tablets. (b) (4) identified included (b) (4) (b) (4) (c) (d) (d) (d) (d) (e) (d) (e) (f) (f) (f) (f) (f) (f) (f) (f) (f) (f			
Time limits are not established when appropriate for the completion of each production phase to assure the quality of the drug product. Specifically, Your QU assigns a of your drug products without evidence of their stability. Furthermore, this hold time was frequently exceeded by your production department. From 11/1/16 thru 11/19/18, your QU opened 462 investigations as per MPI-SOP-QAO-OPS-0011 "Exceeded Out-Dates" for exceeding the hold time but no effective corrective and preventive action has been implemented.				
SEE REVERSE OF THIS PAGE	EMPLOYEE(S) SIGNATURE James M Mason, Investigator Marcus A Ray, Investigator Melissa T Roy, Investigator Atul Agrawal, Non Reporting Ileana Barreto-Pettit, Nati Rebecca E Dombrowski, FDA C or Employee of Other Federa Ko U Min, Chemist/Biologist Alison N Stieg, Chemist/Bio	User onal Expert enter Employe 1 Agencies	James M Mason Investigator Signed By 2000409309 Date Sinned 04-12-2018-14-33-24	DATE ISSUED 4/12/2018
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DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION				
DISTRICT ADDRESS AND PHON		DATE	E(S) OF INSPECTION /19/2018+	
Baltimore, MI		FEIN	NUMBER	
(410)779-5455	Fax: (410)779-5707	11	.10315	- 1
NAME AND TITLE OF INDIVIDUA				
Kimberly L. H	Kupec, Head of OSD Quality Mo	rgantown		
and the same	ceuticals Inc.	781 Chestnu	it Ridge Rd	
CITY, STATE, ZIP CODE, COUN		TYPE ESTABLISHMENT INS		200000
Morgantown, V	WV 26505-2730	Finished Dr	rug Product Manufact	irer
QUALITY SYSTE	EM			
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The state of the s	e to thoroughly review any unexpla	ined discrepand	cy and the failure of a ba	tch or any of
its components	to meet any of its specifications who	ether or not the	batch has been already	distributed.
Specifically,				
1 The dec	ision to authorize the approximately	0 4 hatch redu	action for Carbidona/Lev	vodona
	00mg, lot 3092534 (b) (4) unde			
	a documented assessment of the imp			(7)
non-recorded and a second	THE STATE OF THE SECOND CONTROL OF THE SECOND SECON			
capacity changes on the validated process for this same product. In addition, no change control notification was initiated for this batch reduction. This batch was later subject to an LIR for				
dissolution failure and was pending final assessment and disposition.				
	er review, adjustments to written bat			
-	ents affecting the final batch size are	and the same of		tion
investiga (b) (4)	due to a Processing Devia			thout a
docume	nted assessment of the impact of the	**		
	vere provided in which batch size re			
CVCIIIS V	vere provided in which batch size re	ductions were	authorized under a devia	tion without
	EMPLOYEE(S) SIGNATURE			DATE ISSUED
SEE REVERSE	James M Mason, Investigator			4/12/2018
OF THIS PAGE	Marcus A Ray, Investigator Melissa T Roy, Investigator		James M Mason	
	Atul Agrawal, Non Reporting	User	X Suped By 2000408308 Date Secret: 04-12-2018 14-33-24	
	Ileana Barreto-Pettit, Natio	The state of the s		
	Rebecca E Dombrowski, FDA Co or Employee of Other Federal		ee	
	Ko U Min, Chemist/Biologist			
	Alison N Stieg, Chemist/Biol	logist		

	TH AND HUMAN SERVICES GADMINISTRATION
DISTRICT ADDRESS AND PHONE NUMBER	DATE(S) OF INSPECTION
6000 Metro Drive, Suite 101	3/19/2018-4/12/2018*
Baltimore, MD 21215 (410)779-5455 Fax:(410)779-5707	FEINUMBER 1110315
NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED	- I - I - I - I - I - I - I - I - I - I
Kimberly L. Kupec, Head of OSD Quality Mo	rgantown
FIRM NAME	STREET ADDRESS
Mylan Pharmaceuticals Inc.	781 Chestnut Ridge Rd
CITY, STATE, ZIP CODE, COUNTRY	TYPE ESTABLISHMENT INSPECTED
Morgantown, WV 26505-2730 Finished Drug Product Manufacturer	

an adequate and documented process validation assessment of the change. These include the reduction to Atorvastatin Calcium 80mg lot 3088548 that was subsequently subject to another deviation investigation for 'excessive broken tablets'. This lot was released for distribution.

2. On 02/15/18, you received a complaint for two lots (3091569 & 3091571) of Carbidopa/Levodopa 10mg/100mg tablets having a high percentage of "specks" on the tablets. The investigation (PR#1446914) states the spots were only on the surface. There was no evaluation of the inside of the tablets to determine if the spots were present throughout the tablet.

The investigation did not evaluate the potential for the specks to have been caused by cross contamination from previous products made on the same equipment. The investigation does not identify the type of equipment, equipment number or the location where the product was made.

3. On 05/11/17, you received a complaint for Carbidopa/Levodopa 25mg/100mg (Lot #3076689) having blue/dark spots on the tablets. The tablets are normally yellow in color. The investigation concluded by analytical analysis that the dark spots contained trace metals associated with stainless steel. The report did not adequately evaluate the equipment used in the production of this product as a potential source of the metal instead concluding that a "likely point of introduction cannot be determined".

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James M Mason, Investigator Marcus A Ray, Investigator Melissa T Roy, Investigator Atul Agrawal, Non Reporting User Ileana Barreto-Pettit, National Expert Rebecca E Dombrowski, FDA Center Employee or Employee of Other Federal Agencies Ko U Min, Chemist/Biologist Alison N Stieg, Chemist/Biologist	James M Mason Investigator Signed By 2000408088 Date Signed, 04-12-2718, 14:33-24	4/12/2018

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INSPECTIONAL OBSERVATIONS

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(410)///3-343.	Fax: (410) //9-5/0/			
NAME AND TITLE OF INDIVIDU	AL TO WHOM REPORT ISSUED			
Kimberly L. 1	Kupec, Head of OSD Quality Mo	rgantown		
FIRM NAME		STREET ADDRESS		
	ceuticals Inc.	781 Ches	tnut Ridge Rd	
Morgantown, N		Taking managarang propaga	Drug Product Manufact	
Morganicown,	VV 28303-2730	Fillished	Drug Froduct Manuract	nter
4. Your Qual 1106258 (3/31/17 (OOT) f Disinteg investigatine periodic (b) (4) (b) (4) because perform potential For example (b) (4) Furthern	root causes for powder segregation nple. (b) (4)	ring Investiguely, and Tred (b) (4) vatches of Prosults was developed (b) (4) Your root need and haddition, your and heterowere not evaluate the sum of t	gation Reports (MIRs) # 10 ending Assessment Form # assay results and high vari- rednisolone Sodium Phosph According to termined to be untrained or cause was not supported by d documentation of training investigation was not adequencity of the blend were naturated as potential root cause	71629 and 1165047 ability results nate Orally your y evidence g in uate in that all ot ruled out.
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OF THIS PAGE	Marcus A Ray, Investigator		James M Mason	
	Melissa T Roy, Investigator		Names M Mason	
	Atul Agrawal, Non Reporting			
	Ileana Barreto-Pettit, National Rebecca E Dombrowski, FDA Co			
	or Employee of Other Federal		1000	
	Ko U Min, Chemist/Biologist	yemeres		
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FORM FDA 483 (09/08)	PREVIOUS EDITION ORSOLETE INS	PECTIONAL O	BSERVATIONS	PAGE 28 OF 32

	DEPARTMENT OF HEALT	TH AND HUMAN SERVICE ADMINISTRATION	ES	
DISTRICT ADDRESS AND PHON	NE NUMBER	DATE(S) OF IN		
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Baltimore, MI (410)779-545	55 Fax: (410) 779-5707 111031		5	
NAME AND TITLE OF INDIVIDUA	NL TO WHOM REPORT ISSUED			
	Kupec, Head of OSD Quality Mon			
	ceuticals Inc.	781 Chestnut Ri	dge Rd	
CITY, STATE, ZIP CODE, COUN	The state of the s	TYPE ESTABLISHMENT INSPECTED		
5. During our review of Atenolol, USP API (b) (4) Assay testing, we observed Laboratory Investigation (LIR 1464472), which has been opened since March 6, 2018 based on OOS results for (b) (4) March 5, 2018. A re-analysis of samples from the (b) (4) on March 7, 2018. During the investigation, the firm's Quality Unit attributed these additional failures to the samples being outside the solution stability time range (March 19, 2018). Based on a review of the original sample solution stability study at the request of the FDA investigators on March 19, 2018, the firm's Quality Unit found that the samples were stable for 13 days. On the same evening, the firm's Quality Unit created and approved a report that samples for Atenolol USP analysis are stable for 13 days, and opened a Pre-Market Supply Incident (PMSI) notifying the supplier of Atenolol USP of the total OOS batches. 6. Laboratory investigation (LIR 1416727) which was opened based on an OOS result for batch #549048 of Clomipramine HCl, USP API assay testing resulted in OOS results for an additional batch #549046 during a (b) (4) During the investigation, the firms' Quality Unit attributed these additional failures to the sample being outside the solution stability time range (b) hours). However, there is no data to support this hypothesis as the solution stability study indicates it was only conducted up to the solution stability study indicates it was only conducted up to the solution stability study indicates it was only conducted up to the solution stability study indicates it was only conducted up to the solution stability study indicates it was only conducted up to the solution stability time range (b) hours investigation on an instrument that they later designated to be out of service due to a performance issue				
SEE REVERSE OF THIS PAGE	EMPLOYEE(S) SIGNATURE James M Mason, Investigator Marcus A Ray, Investigator Melissa T Roy, Investigator Atul Agrawal, Non Reporting Ileana Barreto-Pettit, Natio Rebecca E Dombrowski, FDA Ce or Employee of Other Federal Ko U Min, Chemist/Biologist Alison N Stieg, Chemist/Biol	nal Expert nter Employee Agencies	James M Meson Investigator Signed By 2000408308 Dista Siscoed: R4-12-2018 14-33-24	DATE ISSUED 4/12/2018
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DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION				
DISTRICT ADDRESS AND PHONE NUMBER	DATE(S) OF INSPECTION			
6000 Metro Drive, Suite 101	3/19/2018-4/12/2018*			
Baltimore, MD 21215 (410)779-5455 Fax:(410)779-5707	1110315			
NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED				
Kimberly L. Kupec, Head of OSD Quality Morgantown				
FIRM NAME	STREET ADDRESS			
Mylan Pharmaceuticals Inc.	781 Chestnut Ridge Rd			
CITY, STATE, ZIP CODE, COUNTRY	TYPE ESTABLISHMENT INSPECTED			
Morgantown, WV 26505-2730	Finished Drug Product Manufacturer			

OBSERVATION 12

Drug product production and control records, are not reviewed and approved by the quality control unit to determine compliance with all established, approved written procedures before a batch is released or distributed.

Specifically,

Specifically, your Quality Unit failed to review and close all LIMS investigations opened during the compression or encapsulation processes of numerous batches before their release as required by MPI-SOP-QAO-REV-0011 "Review of Quality Assurance Folders from Manufacturing to AQL Management." These brief investigations are opened when issues such as out-of-limit or out-of-specification results are obtained during in-process checks that require supervisory intervention. According to a list of LIMS investigations generated during the inspection on 3/28/18, 4,279 out of 25,432 LIMS investigations were not closed by QA prior to batch release. Of these open investigations, 1,945 investigations were for in-process results that were out of specifications.

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OF THIS PAGE	Marcus A Ray, Investigator	James M Mason	
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	Atul Agrawal, Non Reporting User	Date Signed: 04-12-2018 14:33-2	4
	Ileana Barreto-Pettit, National Expert		1
	Rebecca E Dombrowski, FDA Center Employee		
	or Employee of Other Federal Agencies		
	Ko U Min, Chemist/Biologist		
	Alison N Stieg, Chemist/Biologist		

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DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION				
DISTRICT ADDRESS AND PHONE NUMBER	DATE(S) OF INSPECTION			
6000 Metro Drive, Suite 101	3/19/2018-4/12/2018*			
Baltimore, MD 21215 (410)779-5455 Fax:(410)779-5707	FELNUMBER 1110315			
NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED				
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FIRM NAME	STREET ADDRESS			
Mylan Pharmaceuticals Inc.	781 Chestnut Ridge Rd			
CITY, STATE, ZIP CODE, COUNTRY	TYPE ESTABLISHMENT INSPECTED			
Morgantown, WV 26505-2730	Finished Drug Product Manufacturer			

OBSERVATION 13

Written records of investigation of a drug complaint do not include the follow-up.

Specifically,

Complaint investigation under PR 1194778 received on May 4, 2017 for "10 broken tablets" reportedly observed by a pharmacist from a bottle of Benazepril HCl/HCTZ tablets 20mg/12.5mg, lot 3080983, resulted in a review of the retained sample for this lot that also confirmed a broken tablet in the retained, 100 count bottle. The complaint investigation concluded that the root cause of the complaint event was manufacturing. Market action assessment was not documented in this closed complaint investigation, and a FAR had not been filed for this lot as of 3/29/2018.

*DATES OF INSPECTION

3/19/2018(Mon), 3/20/2018(Tue), 3/21/2018(Wed), 3/22/2018(Thu), 3/23/2018(Fri), 3/26/2018(Mon), 3/27/2018(Tue), 3/28/2018(Wed), 3/29/2018(Thu), 4/10/2018(Tue), 4/11/2018(Wed), 4/12/2018(Thu)

EMPLOYEE(S) SIGNATURE	E.	DATE ISSUED
James M Mason, Investigator Marcus A Ray, Investigator Melissa T Roy, Investigator Atul Agrawal, Non Reporting User Ileana Barreto-Pettit, National Expert Rebecca E Dombrowski, FDA Center Employee or Employee of Other Federal Agencies	James M Meson Investigator X Spred by 200040506 Date Bioned: 04-12-2015 14:33:24	4/12/2018
Ko U Min, Chemist/Biologist Alison N Stieg, Chemist/Biologist		

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DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION DISTRICT ADDRESS AND PHONE NUMBER DATE(S) OF INSPECTION 3/19/2018-4/12/2018* 6000 Metro Drive, Suite 101 FEI NUMBER Baltimore, MD 21215 1110315 (410)779-5455 Fax: (410)779-5707 NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED Kimberly L. Kupec, Head of OSD Quality Morgantown STREET ADDRESS Mylan Pharmaceuticals Inc. 781 Chestnut Ridge Rd CITY, STATE, ZIP CODE, COUNTRY TYPE ESTABLISHMENT INSPECTED Morgantown, WV 26505-2730 Finished Drug Product Manufacturer X Investigator Signed By: 2001550773 Date Signed: 04-12-2016; 14:35-22 X Signed By 2001597616 Date Signed 04-12-2016 14 34 32 Atul Agrawal Non Reporting User Signed By Atul J Agrawal -S Date Signed 04-12-2018 14-38 15 EMPLOYEE(S) SIGNATURE DATE ISSUED SEE REVERSE James M Mason, Investigator 4/12/2018 Marcus A Ray, Investigator OF THIS PAGE Melissa T Roy, Investigator Atul Agrawal, Non Reporting User Ileana Barreto-Pettit, National Expert Rebecca E Dombrowski, FDA Center Employee or Employee of Other Federal Agencies Ko U Min, Chemist/Biologist Alison N Stieg, Chemist/Biologist