|  | 1. Responses a succional description and a succional description of the su |                | Marine Services (Services of Services of  |                                    |  |
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| DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION   |  |                |   |                                    |  |
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| NAME AND TITLE OF INDIVIDUA  | AL TO WHOM REPORT ISSUED   |                |   |                                    |  |
| Umesh Kumar (  | Gupta, Campus Head   |                |   |                                    |  |
| FIRM NAME  | - 10 Fe - 5  | STREET ADDRESS | ) O 17/11   |                                    |  |
| Cadila Health  |  |                | 9 & 420 8a Village-Moraiya<br>establishment inspected                           |                                    |  |
| Ahmedabad, Gu  | ijarat, 382210 India   | Drug Manu      | ıfacturer   |                                    |  |
| observations, and do<br>observation, or have<br>action with the FDA  | 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.   |                |   | garding an<br>ess the objection or |  |
| DURING AN INSPECT  | TION OF YOUR FIRM WE OBSERVED:   |                |   |                                    |  |
| Equipment and  | utensils are not cleaned and maintai   | ned at appro   | opriate intervals to prevent  | contamination                      |  |
| that would alter   | the safety, identity, strength, quality  | y or purity o  | f the drug product.   |                                    |  |
|  |  | N/W/S-3/3/2-2  | 2   |                                    |  |
|  | s were observed on surfaces of clear   |                | equipment. Cleaning pro-  | cedures do not                     |  |
| include provisions for routine cleaning or inspection of the (b) (4) duct area.  |  |                |   |                                    |  |
|  |  |                |   |                                    |  |
| a. Non-dedicated (b) (4) equipment CH/TS/013 had residues in the (b) (4) duct and on the   |  |                |   |                                    |  |
|  |  |                | quipment was identified as  | clean. This                        |  |
| equipment has been used in the manufacture of tablets with (b) (4) active  |  |                |   |                                    |  |
| ingre  | edients including (b) (4)  |                |   |                                    |  |
|  |  |                |   | -                                  |  |
|  | W. C.  | ,              | 43.76   |                                    |  |
|  | . Tablet batches of (b) (4   |                | , (b) (4)   | , and                              |  |
| (b) (4)  | manufactured on this equipment   | nent have be   | en distributed to the US m  | ıarket.                            |  |
| b. Non   | -dedicated (b) (4) equipment CH/   | MC/TAB/19      | 999/19 had residues in the  | (b) (4) duct                       |  |
|  | (1-) (4)   |                | 019. QC testing detected t  |                                    |  |
| the f  | following APIs in the residue: (b) (4)   |                | (b) (4) (b) (4)   | (b) (4)                            |  |
| (b) (4)  | (b) (4) (b)  | -              | , (b) (4) , (b) (4)   | ,                                  |  |
| (b) (4)  | , and (b) (4)  | . This         | equipment has be  | en used to                         |  |
| _  |  |                |   |                                    |  |
|  |  |                |   |                                    |  |
|  |  |                |   |                                    |  |
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| OF THIS PAGE   | Drug Cadre Thomas J Arista, National Ex  | mert           | Justin A Boyd<br>Investigator - Dedicated Drug<br>Cadre<br>Stoned By 2000358686 |                                    |  |
|  | Rita K Kabaso, Office of Int   |                | X Date Signed 05-03-2019 10 40 56   |                                    |  |
|  | Programs Employee  |                |   |                                    |  |

FORM FDA 483 (09/08)

PREVIOUS EDITION OBSOLETE

PAGE 1 of 23 PAGES

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| 12420 Parklawn Drive, Room 2032<br>Rockville, MD 20857   |                             | 4/22/21<br>FEI NUMBER   | 019-5/3/2019*  |                      |
| ROCKVIIIE, MD 2003/  |                             | 300298  | 4011   |                      |
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| NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED   |                             | l .   |  |                      |
| Umesh Kumar Gupta, Campus Head   |                             |   |  |                      |
| FIRM NAME Cadila Healthcare Limited  | 419 & 42                    | 0 8a Vi   | llage-Moraiya  |                      |
| CITY, STATE, ZIP CODE, COUNTRY   | TYPE ESTABLISHM             |   |  |                      |
| Anniedapad, Gujarat, 302210 india  | Drug Man                    | lulacture   | <u> </u>   |                      |
| manufacture tablet products for the US market including, but not limited to: (b) (4) , (b) (4) , and (b) (4) . , and (b) (4) |                             | residues on ally, (b) (4) in the (b) (4) red was a used to (4) quipment has limited to:  (4) 9/11, ces of US market.  runsmooth were tagged |  |                      |
| SEE REVERSE OF THIS PAGE  OF THIS PAGE  Drug Cadre Thomas J Arista, National E Rita K Kabaso, Office of In Programs Employee | xpert                       |   | Justin A Boyd Investigator - Dedicated Drug Signed By 2000358686 Date Signed 05-03-2019 10 40 56 | DATE ISSUED 5/3/2019 |

FORM FDA 483 (09/08)

PREVIOUS EDITION OBSOLETE

PAGE 2 of 23 PAGES

| DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION   |  |  |  |
|--|--|--|--|
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| Umesh Kumar Gupta, Campus Head   |  |  |  |
| FIRM NAME  | STREET ADDRESS                                 |  |  |
| Cadila Healthcare Limited  | 419 & 420 8a Village-Moraiya                   |  |  |
| CITY, STATE, ZIP CODE, COUNTRY  Ahmedabad, Gujarat, 382210 India   | TYPE ESTABLISHMENT INSPECTED Drug Manufacturer |  |  |
| <ul> <li>3. The (b) (4) chute that is used during the manual transfer of the sterile stoppers during the aseptic filling process appears to have some form of visible scoring on the (b) surface, there are several dents on the (b) body and the chute's inlet and outlet ports have rough and uneven edges that are not smooth, cleanable surfaces.</li> <li>4. Manufacturing equipment including (b) (4) were observed to contain visible dents on the exterior and interior surfaces of the equipment. A mallet is used on the exterior surface of the (b) (4) to remove drug product adhered inside the (b) (4) .</li> </ul>  |  |  |  |
| Procedures designed to prevent microbiological contamination of drug products purporting to be sterile are not established and followed.  1. Procedure 0301-SOP-MFG-00506 "Guidelines for Working in Aseptic Area" requiring operators to not lean over sterilized containers or closures and not to obstruct laminar air flow was not followed:  a. During stopper addition for (b) (4) injection batch (b) (4) on April 22, 2019, the operator passed their hands over the opened bag of sterile stoppers during bag (b) (4) and handling. When the stoppers were poured into the stopper chute, the operator's hands were over the sterile stopper chute.  b. During filling of (b) (4) injection batch (b) (4) injection b |  |  |  |
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Rita K Kabaso, Office of International

Programs Employee

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| Umesh Kumar Gupta, Campus Head  |   |  |  |  |
| Cadila Healthcare Limited   | STREET ADDRESS 419 & 420 8a Village-Moraiya |  |  |  |
| CITY, STATE, ZIP CODE, COUNTRY  | TYPE ESTABLISHMENT INSPECTED                |  |  |  |
| Ahmedabad, Gujarat, 382210 India Drug Manufacturer  |   |  |  |  |
| Non-(b) (4) Quality Assurance Deputy General Manager confirmed the (b) (4) are not sterile and operators are permitted to use the requiring the need to clear the vials.  2. During the aseptic filling operations performed in Fill Line (b), we observed personnel enter into and out of the Grade A area via the (b) (4) glass vial conveyor that is positioned subsequent the glass vial stoppering process (Note: there is a similar glass vial conveyor system for Fill Line (b). We observed this activity on numerous occasions with the (b) (4) RABs access (b) (4) remaining open for approximately 3 to 4 minutes at a time. There is no SOP and/or language in the manufacturing batch record to describe and establish the manner of how personnel access and personnel activities are to be performed while in the Grade A conveyor area. |   |  |  |  |

### **OBSERVATION 3**

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

Regarding the aseptic processing simulation of the subject to the steps in that the media filled vials that are exposed during the fill room operators' manual interventions are removed from the batch of the media filled vials. In addition;

1. The media filled vials that are removed during the manual interventions and culled from the media filled batch and are not subject to the routine aseptic filling process. For example, media fill batch number (b) (4) dated January 16, 2019 documents the removal of 1,328 media filled vials. The production operator and Senior Executive explained that the 1,328 media filled vials were placed on a collection (b) (4) under LAF conditions, which is the location where the (b) (4) stoppers are (b) (4) manually, on the glass vials. Following the manual process of

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|              | Thomas J Arista, National Expert        | Cadre Signed By 2000358686 X Date Signed 05-03-2019 10 40 56 |             |
|              | Rita K Kabaso, Office of International  | A Base Signed 60-60-2015 10-40-30                            |             |
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FORM FDA 483 (09/08) PREVIOUS EDITION OBSOLETE INSPECTIONAL OBSERVATIONS PAGE 4 of 23 PAGES

|  | HEALTH AND HUMAN SERVICES<br>ID DRUG ADMINISTRATION |  |
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| DISTRICT ADDRESS AND PHONE NUMBER  | DATE(S) OF INSPECTION                               |  |
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| NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED  Umesh Kumar Gupta, Campus Head |   |  |
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| CITY, STATE, ZIP CODE, COUNTRY   | TYPE ESTABLISHMENT INSPECTED                        |  |
| Ahmedabad, Gujarat, 382210 India   | Drug Manufacturer                                   |  |

(b) (4) the (b) (4) stoppers on to the media filled vials, they are transferred to an that feeds into the vial (b) (4) station. The aforementioned manual operations and processing steps are not part of the routine aseptic filling process for finished drug products;

2. The above practice is commonly performed for all media fill simulations performed in (b) (4) Facility (b) e.g.

| Batch number | Container   | Date of Mfg. | # of culled units |
|--------------|---|--------------|-------------------|
| (b) (4)      | (b) (ml (b) (4) USP (b) (4) (b) (4) Glass vials     | (b) (4)      | 881               |
| (b) (4)      | (b) (d) (d) USP (b) (4) (d) Glass vials             | (b) (4)      | 1354              |
| (b) (4)      | (b) (4) USP (b) (4) (6) (4) Glass vials             | (b) (4)      | 652               |
| (b) (4)      | (b) (d) (d) USP (b) (4) (d) (d) (d) (d) (d) (d) (d) | (b) (4)      | 737               |
| (b) (4)      | (b) ml (b) (4) USP (b) (4) Glass vials              | (b) (4)      | 1292              |
| (b) (4)      | (b) (a) USP (b) (4) USP (b) (4) Glass vials         | (b) (4)      | 1262              |
| (b) (4)      | (b) ml<br>(b) (4) USP (b) (4) Glass vials           | (b) (4)      | 1332              |

# **OBSERVATION 4**

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

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FORM FDA 483 (09/08) PREVIOUS EDITION OBSOLETE INSPECTIONAL OBSERVATIONS PAGE 5 of 23 PAGES

| DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION |                              |  |  |  |
|--|------------------------------|--|--|--|
| DISTRICT ADDRESS AND PHONE NUMBER                                    | DATE(S) OF INSPECTION        |  |  |  |
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| Umesh Kumar Gupta, Campus Head                                       |                              |  |  |  |
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| Ahmedabad, Gujarat, 382210 India                                     | Drug Manufacturer            |  |  |  |
|  |                              |  |  |  |

- 1. The Airflow Visualization Test Protocol cum Reports (aka smoke studies) acceptance criteria includes (b) turbulence should be observed. Laminar visible smoke / air flow should be maintained inside the LAF. The visible smoke / air should move from the working zone to outside area." And, regarding the acceptance criteria during the material transfer from the (b) (4) zone to (b) (4) to filling room and (b) (4) zone to filling room, is as follows. The visible smoke / air should move from more critical area to less critical areas immediately while opening the (b) (4). However, there are a number of instances where either the personnel activities and/or production related equipment block the ability to view the laminar air flow, for example, the video does not capture when personnel are removing the stoppered vials out of the (b) (4) the personnel activities impact upon the laminar air flow, or the impact on the laminar air flow when moving equipment. In addition:
  - a. The air flow pattern evaluations for line (b) demonstrated air flowing (b) the stopper addition chute and creating turbulence where the laminar flow (b) (4) the stopper addition air meets with the air flowing (b) of the stopper chute.
  - b. The air flow pattern evaluations did not include an assessment of the air flow when manually transferring the (b) (4) media filled glass vials from the fill line to (b) (4) 2.
  - c. There is no air flow pattern evaluation performed to determine the impact upon the laminar airflow during the movement of the mobile transfer unit from the (b) zone to (b) (4).
  - d. There is no air flow pattern evaluation performed to ensure that the movement of HEPA filtered air from the Grade B does not enter into the Grade A (b) (4) area.
  - e. There is no air flow pattern evaluation for the routine intervention of removing fallen vials at the vial (b) (4) using the RABS (b) (4).

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FORM FDA 483 (09/08) PREVIOUS EDITION OBSOLETE INSPECTIONAL OBSERVATIONS PAGE 6 of 23 PAGES

|   | EALTH AND HUMAN SERVICES<br>DRUG ADMINISTRATION  |  |
|---|--|--|
| DISTRICT ADDRESS AND PHONE NUMBER 12420 Parklawn Drive, Room 2032   | DATE(S) OF INSPECTION 4/22/2019-5/3/2019*  |  |
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| Ahmedabad, Gujarat, 382210 India  | Drug Manufacturer  |  |
| manufacturing (b) (4)  I. For example, a production operator explained the air pressure readings are taken at the (b) (4)  I. However, there are no air pressure measurements taken during a dynamic state of manufacturing operations. In addition;  a. Analog (b) (4)  gauges are used to measure/monitor the air pressure differentials between the controlled and classified manufacturing areas. The individual (b) (4)  gauges are not connected (e.g., computer based system) in a manner to collectively monitor all of the air pressure differences in a dynamic state of operation. The manner of monitoring real time air pressure differentials via the use of the analog (b) (4)  gauges during routine manufacturing operations in the controlled and classified manufacturing areas is not current good manufacturing practice technology. |  |  |
| b. There is no record to document the mm of water column air pressure differentials are maintained during routine aseptic filling operations to demonstrate that the requisite air pressures (e.g., (b) (4) positive air pressure to less positive or negative air pressures) are appropriately sustained.  |  |  |
| c. There are (b) (transfer (b) (4) used to move material into and/or out of the controlled and classified manufacturing areas. The transfer (b) (4) without an air flow unit (aka static (b) (4) and do not (b) (4) ) do not have an air pressure monitoring device (e.g., analog/digital gauge) and there is no record to document that the appropriate air pressures are maintained i.e., the lesser quality of air (non-classified) does not ingress into the controlled and classified manufacturing areas.   |  |  |
| 3. On filling line (b), the stoppered filled gla following the aseptic filling as they trave  | ass vials are conveyed under Grade A conditions el to the vial capping station located in room # (b) (4) |  |

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5/3/2019

(Grade C). As the stoppered vials enter the capping station the they are no longer in a Grade A environment. Rather, the Senior Manager Quality Assurance explained that the air is intended to

FORM FDA 483 (09/08) PREVIOUS EDITION OBSOLETE INSPECTIONAL OBSERVATIONS PAGE 7 of 23 PAGES

|  | TH AND HUMAN SERVICES<br>G ADMINISTRATION |
|--|---|
| DISTRICT ADDRESS AND PHONE NUMBER                  | DATE(S) OF INSPECTION                     |
| 12420 Parklawn Drive, Room 2032                    | 4/22/2019-5/3/2019*                       |
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be unidirectional with no specific classification of the air;

There is no scientific rationale to support not maintaining the stoppered glass vials under Grade A conditions prior to the capping process.

# **OBSERVATION 5**

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

- f. The EM trend data documents recurring microbial contamination via the personnel monitoring program. The EM data reveal certain individuals who appear to be a source for the Bacillus and Pseudomonas microbial contamination in the Grade B and Grade A manufacturing areas. The data shows the Grade B corridor used to access fill lines (b) and (b) may be a route of contamination to the Grade A areas. Effective actions have not been taken to address these recurrences.
- g. Thorough assessments to establish rationale for viable environmental monitoring limits, frequencies, and locations have not been documented. For example, the assessments lack documented rationale for the following:
  - a. The personnel working with their body (b) (4) inside of the Grade A stopper addition area aseptically open bags of sterile stoppers and add sterile stoppers via a sterilized chute. The operator is held to Grade B limits during personnel monitoring. This allows for (CFU on the operators hands without requiring any additional action.
  - b. There is no viable air monitoring via settle plates or active air sampling of the Line (b) (4) Grade A conveyor area (b) (4) the stoppering station and the capping room. A surface

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FORM FDA 483 (09/08) PREVIOUS EDITION OBSOLETE INSPECTIONAL OBSERVATIONS PAGE 8 of 23 PAGES

| DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION |                              |  |  |  |
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| DISTRICT ADDRESS AND PHONE NUMBER                                    | DATE(S) OF INSPECTION        |  |  |  |
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|  |                              |  |  |  |

monitoring sample is taken in this area (b) (4) per (b) (4), although filling can occur up to (b) (4) a (b) (4). Personnel move through this area with their (b) (4) body in the Grade A area and the barrier (b) (4) were observed to remain open to the Grade B areas for approximately 3-4 minutes.

- c. Monitoring of sterilized tools including the (b) (4) used for aseptically opening stopper bags, the sterile rod for removing stuck stoppers, and the sterile forceps for removing fallen or jammed stoppers and vials are only conducted (b) (4) per (b) (4). Batches could be filled up to (b) (1) times per (b) (4). Additionally, there are (b) forceps located in the Grade A filling barrier and the personnel performing monitoring chooses one forceps at random. They do not document which forceps is chosen for sampling.
- d. Viable air monitoring in the Grade A (b) (4) zone where the (b) (4) is unloaded and filling machine parts are stored is Grade A is only conducted (b) (4) per (b) (4).
- e. Procedures and environmental monitoring records lack descriptions of the locations to be sampled. For example, the Grade A (b) (4) in the stopper addition is to be monitored, but the location is chosen at random. Sampling of Grade B floors and walls is done at random. The location chosen is not documented.
- h. Non-viable particle (NVP) measurements are taken in the Line (b) (a) Grade A glass vial conveyor area (b) (4) the stoppering station and the capping room. However, the NVP probe is located (approximately (b) (4) ) away from the personnel access area and the NVP data does not accurately reflect the NVP levels when personnel enter and/or exit the Grade A glass vial conveyor area.
- i. NVP measurements are taken during routine aseptic filling process of the (b) (4) drug

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FORM FDA 483 (09/08) PREVIOUS EDITION OBSOLETE INSPECTIONAL OBSERVATIONS PAGE 9 of 23 PAGES

| should be positioned; and,  b. The SOP is deficient with regards to establishing what specifically constitutes an "operational height" and there is no specific description of where exactly the NVP monitoring should take place in the "Grade A area.  j. In (b) (4)   |  | DEPARTMENT OF HEAL<br>FOOD AND DRUG  | TH AND HUMAN SERVI<br>ADMINISTRATION | CES                    |                     |
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| Umesh Kumar Gupta, Campus Head    STREET ADDRESS   |  |  |                                      | 84011                  |                     |
| Umesh Kumar Gupta, Campus Head    STREET ADDRESS   |  |  |                                      |                        |                     |
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| the top of the (b) (4) is approximately vials;    SEE REVERSE OF THIS PAGE   | (approxi   | mately (b) (4) ) from the mobile   | e trolley's HEPA f                   | ilter face. The NVP    | probe is not        |
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| Thomas J Arista, National Expert Rita K Kabaso, Office of International  |  |  | - Dedicated                          | Justin A Boyd          | 5/3/2019            |
|  |  | Thomas J Arista, National Ex   |                                      | Carire                 |                     |
| Programs Employee  |  | Rita K Kabaso, Office of Int<br>Programs Employee  | ernational                           |                        |                     |
| FORM FDA 483 (09/08) PREVIOUS EDITION OBSOLETE INSPECTIONAL OBSERVATIONS PAGE 10 of 23 PAGES   | FORM FDA 483 (09/08)                             |  | PECTIONAL OBSERVA                    | TIONS                  | PAGE 10 of 23 PAGES |

|  |   | TH AND HUMAN SERVICES<br>ADMINISTRATION                      |   |
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| DISTRICT ADDRESS AND PHON  | NE NUMBER   | DATE(S) OF INSPEC  |   |
| Rockville, M   | wn Drive, Room 2032<br>D 20857  | FEI NUMBER   | 9-5/3/2019*   |
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| NAME AND TITLE OF INDIVIDUA  | AL TO WHOM REPORT ISSUED  |  |   |
|  | Gupta, Campus Head  |  |   |
| FIRM NAME  | ncare Limited   | STREET ADDRESS   | and Manadan   |
| CAULTA REALU   |   | 419 & 420 8a Vill  | age-Moralya   |
| Ahmedabad, Gu  | ujarat, 382210 India  | Drug Manufacturer  |   |
| Assuran counter.  OBSERVATIO   | the qualification of the semi-automatice, explained that the NVP measure However, the location and/or place  ON 6  area air supply lacks an appropriate   | ments were obtained verse ment of the isokinetic             | via the use of a mobile particle  |
|  |   |  | 1   |
|  | lent Projects & Engineering describ   |  |   |
|  | n the specification and working diag  |  |   |
|  | sions, geometry and location of all   |  |   |
| Built" engineering diagrams for the air handling units that supply air into Fill Lines #(b) (4) and manufacturing facilities that are used to manufacture aseptically filled finished drug |   |  |   |
| commodities. In addition;  |   |  |   |
| 111  | Accessed the second of the se |  |   |
| that con<br>The buil<br>and <sup>(b) (4</sup><br>filled ste  | erile and (b) (4) injectables, the  | operations. Notwore are (b) (4) ph facility (b) (4) follows; | manufacturing facilities.   |
|  | Medicinal Products (b) (4)  | (b) (4)  |   |
|  | EMPLOYEE(S) SIGNATURE   | III 824 - FM - 827 - 2                                       | DATE ISSUED   |
| SEE REVERSE  | Justin A Boyd, Investigator   | - Dedicated  | 5/3/2019<br>Justin A Bowd   |
| OF THIS PAGE   | Drug Cadre<br>Thomas J Arista, National Ex  | xpert  | Julian A Subject Investigator - Dedicated Drug Cadre X Signed By 2000358686 Date Signed 05-03-2019 10 40 56 |
|  | Rita K Kabaso, Office of Int  |  | V pare alking no-ro-so is in 40 so  |
|  | Programs Employee   |  |   |
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PAGE 12 of 23 PAGES

FORM FDA 483 (09/08)

PREVIOUS EDITION OBSOLETE

|   | EALTH AND HUMAN SERVICES<br>DRUG ADMINISTRATION   |
|---|---|
| DISTRICT ADDRESS AND PHONE NUMBER   | DATE(S) OF INSPECTION   |
| 12420 Parklawn Drive, Room 2032   | 4/22/2019-5/3/2019*   |
| Rockville, MD 20857   | FEINUMBER 3002984011  |
| NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED  Umesh Kumar Gupta, Campus Head  |   |
| FIRM NAME   | STREET ADDRESS  |
| Cadila Healthcare Limited   | 419 & 420 8a Village-Moraiya  |
| CITY, STATE, ZIP CODE, COUNTRY  | TYPE ESTABLISHMENT INSPECTED  |
| Ahmedabad, Gujarat, 382210 India  | Drug Manufacturer   |
| (Note: the computer's memory capacity is (b) by displaying all the currently retained to the present (April 29, 2019). In addition: | GB). For example, the (b) (4) operator demonstrated data, which is only as far back as October 28, 2018 |

k. On January 5, 2019, deviation DC/2019/014 was initiated due to (b) (4) (b) (4) (computer monitor and CPU breakdown observed during (b) (4) of (b) (4) (b) (4) Injection (b) (a) mg/vial injection batch no. (b) (4) (b) (4) (c) (d) (d) (e) (e) (e) (for (b) (4) (for (b) (for (b) (4) (for (b) (4) (for (b) (4) (for (b) (for (b) (4) (for (b) (4) (for (b) (for (b) (4) (for (b) (f

Deviation DC/2019/014 was closed and approved on February 1, 2019 by the Plant Head, Quality Assurance. Your Corrective and Preventative Action was to install an external hard drive. The TR external hard drive for purchase order is dated April 15, 2019. This is approximately 73 days after Deviation DC/2019/014 was closed and 100 days after your PC data crashed. You could not provide justification for the time-lapse between deviation occurrence and external drive purchase.

- The General Manager Quality Assurance confirmed that they do not track or trend the process aberrant alarm events that are captured by the SCADA computer based system.
- m. The "Computer System Validation Master Plan" document #CQA/CSVMP/00 dated 01/12/15 "...provides guidance and typical approach to validate a computerized system. It also serves as a resource for development of specific computer system validation project plans." In addition, the Computer System VMP establishes and provides guidance regarding for example, "...Back-up and restoration policies are in place and effective for Operating software, application software, configuration settings and data and are getting backed up on an external or any certified media to

|                             | EMPLOYEE(S) SIGNATURE  |  | DATE ISSUED |
|-----------------------------|--|--|-------------|
| SEE REVERSE<br>OF THIS PAGE | Justin A Boyd, Investigator - Dedicated Drug Cadre                         | Justin A Boyd<br>Investigator - Dedicated Drug   | 5/3/2019    |
|                             | Thomas J Arista, National Expert<br>Rita K Kabaso, Office of International | Investigator - Dedicated Drug Cadre Signed By 2000358686 Date Signed 05-03-2019 10 40 56 |             |
|                             | Programs Employee  |  |             |

FORM FDA 483 (09/08) PREVIOUS EDITION OBSOLETE INSPECTIONAL OBSERVATIONS PAGE 13 of 23 PAGES

| DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION |                              |  |  |  |
|--|------------------------------|--|--|--|
| DISTRICT ADDRESS AND PHONE NUMBER                                    | DATE(S) OF INSPECTION        |  |  |  |
| 12420 Parklawn Drive, Room 2032                                      | 4/22/2019-5/3/2019*          |  |  |  |
| Rockville, MD 20857  | FEINUMBER 3002984011         |  |  |  |
| NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED                   | ,                            |  |  |  |
| Umesh Kumar Gupta, Campus Head                                       |                              |  |  |  |
| FIRM NAME  | STREET ADDRESS               |  |  |  |
| Cadila Healthcare Limited  | 419 & 420 8a Village-Moraiya |  |  |  |
| CITY, STATE, ZIP CODE, COUNTRY                                       | TYPE ESTABLISHMENT INSPECTED |  |  |  |
| Ahmedabad, Gujarat, 382210 India                                     | Drug Manufacturer            |  |  |  |
|  |                              |  |  |  |

ensure access if on-line records are lost either through accidental deletion or equipment problems." The (b) (4) equipment operator, the Senior Executive and Quality Assurance confirmed that they currently do not have the capacity to back up the electronic data that is captured by the (b) (4) SCADA system.

- n. A (b) (4) process report is printed out subsequent the routine (b) (4) process, which includes printing out a color coded graphical representation of the (b) (4) process. The (b) (4) equipment operator, the Assistant Manager and Quality Assurance explained that they perform a "verification and confirmation" of the (b) (4) processing data. As an example, with the Vice President of Injectable Operations and Quality Assurance it was calculated that there are approximately (b) (4) data points summarized in the digital print out. However, there is no specific language in the standard operating procedure (SOP) to establish the content of the verification and confirmation process (i.e., what specific process data is verified and confirmed).
- o. The "Rights of authorization level" lists the personnel who are allowed access to the computer. Of the (b) individuals that are listed as "active", 9 individuals no longer work for the company or have moved to other departments.

### **OBSERVATION 8**

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

 Investigations into failures during periodic qualification of the terminal sterilization cycles did not identify assignable root causes for failures to requalify the previously validated cycle parameters.

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| SEE REVERSE<br>OF THIS PAGE | Justin A Boyd, Investigator - Dedicated<br>Drug Cadre<br>Thomas J Arista, National Expert<br>Rita K Kabaso, Office of International<br>Programs Employee | Justin A Boyd investigator - Dedicated Drug Cade Styred By 2000,358686 Date Signed 64-03-2019 10 40 56 | 5/3/2019    |

FORM FDA 483 (09/08) PREVIOUS EDITION OBSOLETE INSPECTIONAL OBSERVATIONS PAGE 14 of 23 PAGES

|                                    | DEPARTMENT OF HEAL' FOOD AND DRUG  | TH AND HUMA<br>ADMINISTRATION  |  | S  |  |
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| DISTRICT ADDRESS AND PHON          | ENUMBER<br>Vn Drive, Room 2032   |  | DATE(S) OF INSP  | PECTION<br>019-5/3/2019*   |  |
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| NAME AND TITLE OF INDIVIDUA        | AL TO WHOM REPORT ISSUED   |  |  |  |  |
|                                    | Gupta, Campus Head   |  |  |  |  |
| FIRM NAME  Cadila Health           | ncare Limited  | STREET ADDRESS   | ) 8a Vil   | .lage-Moraiya  |  |
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| Ahmedabad, Gu                      | ijarat, 382210 India   | Drug Manu  | ıfacture   | er   |  |
| f<br>f<br>f<br>(t                  | nvestigation DC/2018/381 did not experiodic requalification of (b) (4) periodic qualification of load (b) (a) number (b) and (b) (a) number (b) (a) and (b) (4) for (b) (4) (b | inimum load  d (b) during and (b) eams, cycle to (b) (4) me (b) (4) tin assignable | Injected) it was the cycle of The inparameter for (b) (4) the sterilizeme during | tion ml in ml v<br>noted that the requested and there were the and there were the avestigation DC/20 ars for Load-(b) which is modulated at the average (b) (4) to have during sterilization (b) (4) phase's   | ial. During uired (b) was () (4)  018/381 states: was changed ore efficient for (b) (4) on cycle ". However, |
| r<br>g<br>n<br>c. I<br>F           | nvestigation DC/2017/580 did not e periodic requalification of (b) (4) (minimum numbered (b) (4) (4) (minimum numbered ( | Injection load) the restablish an a  | usp ml<br>equired (b)<br>assignable<br>(b) ml in (c)<br>nimum st                 | in bml vial. During was not achieved e cause for failure bml vial. During  | ng periodic d in (b) (4) e during the periodic   |
| 2. (b) (4) consume consume (b) (4) | tablets (b) g process validater complaints have been documented or complaint documented, 0 retain or Complaint investigation included of   | r complaint  | return sa  | mples were tested  | for (b) (4)  |
| SEE REVERSE<br>OF THIS PAGE        | Justin A Boyd, Investigator Drug Cadre Thomas J Arista, National Ex Rita K Kabaso, Office of Int Programs Employee   | xpert  |  | Justin A Boyd investigator - Dedicated Drug Communication of the Communi | DATE ISSUED 5/3/2019   |

FORM FDA 483 (09/08)

PREVIOUS EDITION OBSOLETE

PAGE 15 of 23 PAGES

|   | DEPARTMENT OF HEA  | ALTH AND HUM<br>EUG ADMINISTRAT   |  |   |
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| NAME AND TITLE OF INDIVIDUA   |  |   | I.   |   |
| Umesh Kumar (   | Gupta, Campus Head   | STREET ADDRESS  |  |   |
|   | ncare Limited  | CONTRACTOR OF THE PROPERTY OF | 0 8a Village-Moraiya   |   |
| CITY, STATE, ZIP CODE, COUN   |  | TYPE ESTABLISHM   | ENT INSPECTED  |   |
| Ahmedabad, Gu   | ijarat, 382210 India   | Drug Man  | ufacturer  |   |
| whether other dro You detected conduct smell) compared to the conduct smell) compared to the conduct smell) compared to the conduct share the conducts have the conducts have the conduct share | thowever, no analytical testing we used in the form a products which resulted in Organopathy (b) (4) sm a risk assessment to determine whomplaints have the same/similar has been been used to be a same and between batch and between bat | ras conducted nulation contanopathy (b) anopathy (c) rell) is due to nether other peadspace random deprocess contribution (b) (4) res. Currently for ality Assurant rocess validates  | aining complaint batches we smell).  the bottle headspace area. To botoucts having Organopath ge.  Introls designed to assure the proof or are represented to batch of (b) (4) at your fixed (b) (4) (ce, (b) (4) at your fixed (b) (4) testing the proof of batches. Your establish | at the drug possess.  Tablet range.  has been med (b) (4) |
| SEE REVERSE<br>OF THIS PAGE   | EMPLOYEE(S) SIGNATURE  Justin A Boyd, Investigato  Drug Cadre  Thomas J Arista, National  Rita K Kabaso, Office of I  Programs Employee  | Expert  | Justin A Boyd<br>Investigator - Dedicated Drug<br>Cadre<br>Signed By 2000358686<br>X Date Signed 05-03-2019 10 40 56   | DATE ISSUED 5/3/2019                                      |
| FORM FDA 483 (09/08)  | PREVIOUS EDITION OBSOLETE I  | NSPECTIONAL (   | DBSERVATIONS   | PAGE 16 of 23 PAGES                                       |

|   | DEPARTMENT OF HEAL<br>FOOD AND DRUG  |  |  |
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| 12/120 Parklas  | WE NUMBER WIN Drive, Room 2032   |  | DATE(S) OF INSPECTION 4/22/2019-5/3/2019*  |
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| NAME AND TITLE OF INDIVIDUA   | AL TO WHOM REPORT ISSUED   |  | <u> </u>   |
| Umesh Kumar (   | Gupta, Campus Head   |  |  |
| FIRM NAME   | - 10 FL - 5  | STREET ADDRESS   | 0 0 T/11 W   |
| CACILA HEALT  | ncare Limited  | 419 & 42   | 0 8a Village-Moraiya<br>entinspected   |
| Ahmedabad, Gu   | ajarat, 382210 India   | Service Control of the Control   | ufacturer  |
| validation initiated indicates (b) (4)  q. (b) (4)  manufact (b) (4)  to (b) (4)  to (b) (4)  There is equivale | from different locations of (b) (4) on studies. According to your on January 10, 2018 regarding Organ different the most probable cause for the in your formulation.  Tablet (b) (a) g validated hold turing process. Hold time validation batch (b) (4) in (b) (4)  (b) (a) g was obtained from each continuous container. Hold time study was conditioned in the (b) (4) or (b) (4) storage container to the (b) (4) or (b) (4) storage container with the (b) (4) storage contai | time studies for (b) (4) constime studies for (b) (4) containers tainer using fucted from thing that proposed for the containers. In a | was not included in process sumer complaint (b) C-0301-2018-0002 smell), your investigation mell in (b) (4) is due to the use of was conducted by dispensing (b) (4) with net weight varying between (b) (4) and placed in a (b) (4) and the (b) g sample over (b) (4) period. Toduct (b) (4) in the (b) g study sample is addition, your sampling plan for (b) (4) batches. The following parameters were |
| r. Producti   | g plan does not evaluate for variabil<br>eturing to packaging has been establ-<br>ion personnel are permitted to set the<br>ned in the batch records without requestion the validated process. Tablet com  | over (b) (4) ity within a ished for no e compaction iring a doc paction for  |  |
| SEE REVERSE<br>OF THIS PAGE   | EMPLOYEE(S) SIGNATURE  Justin A Boyd, Investigator  Drug Cadre  Thomas J Arista, National Ex  Rita K Kabaso, Office of Int  Programs Employee  | pert   | Justin A Boyd investigator - Dedicated Drug Cadre Signed by 2000356866 Date State 05-03-2019 10 40 56  |

PAGE 17 of 23 PAGES

FORM FDA 483 (09/08)

PREVIOUS EDITION OBSOLETE

|   | TH AND HUMAN SERVICES<br>GADMINISTRATION  |
|---|---|
| DISTRICT ADDRESS AND PHONE NUMBER  12420 Parklawn Drive, Room 2032  Rockville, MD 20857   | DATE(S) OF INSPECTION  4/22/2019-5/3/2019*  FEI NUMBER  3002984011  |
| NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED  Umesh Kumar Gupta, Campus Head  | ,   |
| FIRM NAME   | STREET ADDRESS  |
| Cadila Healthcare Limited   | 419 & 420 8a Village-Moraiya  |
| Ahmedabad, Gujarat, 382210 India  | Drug Manufacturer   |
| For example, the established batch record li  (b) KN to (b) (4) KN. The actual range used (b) (4) KN to (b) (4) KN and the (b) (4) was established for (b) (4) tablet batch used was (b) KN to(b) KN.   | mit for (b) (4) tablet batch (b) (4) was for the (b) (4) of the compression machine was (b) (4) KN to (b) (4) KN. The batch record limit  |
| parenteral facility Fill Lines (b) (4) and change control documents CC/15/EG/044 d August 10, 2015, the reason/justification for practices and upgrading the facility". The in lines (b) (4) were performed on August 2015; (b) (4) Facility (b) the CCTV I/OQ w functional checks performed during the I/OC Shutdown of the DVR, Locking the DVR, a installation and operation of a digital video: | p. DVR & Monitoring Screens were installed for the Facility (b). As described in the ated April, 27, 2015 and CC/15/EG/066 dated r change is "To keep close watch on production installation and operational qualifications (I/OQ) for for lines (b) (4) in September 2015 and for the was performed on May 2015. Some of the key Q include but not limited to Startup of the DVR, and Status Checking of the DVR. Despite the recorder, the Head of Non-(b) (4) Quality Assurance by do not record the production operations. In |
| video record all aseptic processing s   | urance Deputy General Manager explained that they<br>imulations (aka media fills) via the use of a small<br>and located outside of the fill rooms; the video  |

|                             | EMPLOYEE(S) SIGNATURE  | 441   | DATE ISSUED |
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| SEE REVERSE<br>OF THIS PAGE | Thomas J Arista, National Expert<br>Rita K Kabaso, Office of International | Justin A Boyd Investigator - Dedicated Drug Cadre Signed By 2000358696 Dalte Signed 05-03-2019 10 40 56 | 5/3/2019    |
|                             | Programs Employee  |   |             |

FORM FDA 483 (09/08) PREVIOUS EDITION OBSOLETE INSPECTIONAL OBSERVATIONS PAGE 18 of 23 PAGES

|  | TH AND HUMAN SERVICES<br>GADMINISTRATION |
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| DISTRICT ADDRESS AND PHONE NUMBER                  | DATE(S) OF INSPECTION                    |
| 12420 Parklawn Drive, Room 2032                    | 4/22/2019-5/3/2019*                      |
| Rockville, MD 20857                                | FEI NUMBER 3002984011                    |
| NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED | '  |
| Umesh Kumar Gupta, Campus Head                     |  |
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| Cadila Healthcare Limited                          | 419 & 420 8a Village-Moraiya             |
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| Ahmedabad, Gujarat, 382210 India                   | Drug Manufacturer                        |

recording is taken from a viewing window (approximately (b) (4) x (b) (4) ) in the personnel corridor. Regarding (b) (4) fill line, there are a number of objects that prevent from having an unobstructed view of the aseptic processing simulations. For example, the fill equipment, the fill equipment (b) (4) , the size and movement of the mobile transfer trolley, as well as, the personnel activities performed in the Grade A and Grade B areas, present limitation with regards to observing the aseptic process, which is further hindered by the location of the video camera and physical limitation of the viewing window;

- b. There is a CCTV system with a video camera that provides the ability to observe the Grade A and Grade B areas in front of (b) (4) 2 without the aforementioned obstructions. However, the Head of Non-(b) (4) Quality Assurance Deputy General Manager explained that they do not use the CCTV to record the aseptic media filling process; and,
- c. The CCTV system has a video camera to observe various aseptic filling operations in Fill Line . However, one of the cameras is positioned in a manner such that the structure of the filling equipment obstructs the ability to observe the aseptic filling operations.
- 2. The protocol and report regarding the personnel "Aseptic Area/Clean Room Garments Qualification Study After Maximum Sterilization Cycle (Start From Washing, Drying, Sterilization and Usage) document # OS/VP/610 dated March 08, 2016 is used to supports and "...recommends the use of personnel garments up to (b) washing, drying and sterilization cycle and usage for routine commercial purpose." Evaluations and determinations of the garments are performed via a German company vendor. For example, determinations of the following i.e.,
  - (b) (4) ((b) (4) ); (b) (4) (b) (4) (b) (4) (c) (b) (4) (d) (d) (d) (e) (d) (e) (find the distribution of the distribution of

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FORM FDA 483 (09/08) PREVIOUS EDITION OBSOLETE INSPECTIONAL OBSERVATIONS PAGE 19 of 23 PAGES

|  | LTH AND HUMAN SERVICES<br>UG ADMINISTRATION |
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| DISTRICT ADDRESS AND PHONE NUMBER                  | DATE(S) OF INSPECTION                       |
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| Rockville, MD 20857                                | FEINUMBER 3002984011                        |
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| Umesh Kumar Gupta, Campus Head                     |   |
| FIRM NAME  | STREET ADDRESS                              |
| Cadila Healthcare Limited                          | 419 & 420 8a Village-Moraiya                |
| CITY, STATE, ZIP CODE, COUNTRY                     | TYPE ESTABLISHMENT INSPECTED                |
| Ahmedabad, Gujarat, 382210 India                   | Drug Manufacturer                           |

pore size ((b) (4) particulate contaminant by (b) (4) Method (b) -method according to (b) (4) (b) (4) particulate contaminant by (b) (4)

Despite the establishment of standard operating procedures regarding vendor qualification for excipients and qualification for API, a similar consideration was not performed for the German contract vendor. In addition:

- a. There is a current "Qualification of Service Provider" document #SOP-CQ-00058 dated January 09, 2018. Corporate Quality Assurance confirmed that the company has not retrospectively performed a vendor audit of the contractor noted above;
- b. The biological indicators (BI) used in support of the (b) (4) sterilization process are purchased from an outside vendor. However, Corporate Quality Assurance confirmed that they have not performed a vendor audit of their BI supplier.
- 3. The firm uses a Building Management System (BMS) to monitor the temperature, percent relative humidity and air pressure differences between the Class D glass washing room and the Grade B aseptic filling suites. The BMS installation and qualification (I/OQ) is dated December 17, 2008. The Head of Non-(b) (4) Quality Assurance Deputy General Manager confirmed that the individuals that reviewed and approved the I/OQ documents no longer work at the firm and the current Quality Unit has not reviewed and approved the 2008 I/OQ documents.

### **OBSERVATION 11**

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.

| SEE REVERSE<br>OF THIS PAGE | Justin A Boyd, Invest:<br>Drug Cadre<br>Thomas J Arista, Natio<br>Rita K Kabaso, Office<br>Programs Employee | Justin A Boyd Investigator - Dedicated Drug Cadre Signed By 2000356696 X Date Signed Gb-63-2219110 40 54 | 5/3/2019 |
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|  | Gupta, Campus Head   |  |   |  |
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| Cadila Health  | ncare Limited  | 419 & 42   | 0 8a Village-Moraiya  |  |
| CITY, STATE, ZIP CODE, COUNT   |  | TYPE ESTABLISHME   |   |  |
| Ahmedabad, Gu  | ijarat, 382210 India   | Drug Man   | ufacturer   |  |
| Analysis been eva (b) (4) was not  2. Method (b) (4) with (b) (4) standard used to (b) (4) the approximately (b) (4) representation of the control of the co | During the preparate s were prepared with both evaluate (b) (4) tablets for (b) (4) peaks co-elute, potentially reducing oved method.  "Operation, Calibration and Data 40, incidents will be generated for it for more. No sound justification was tative of your incubator historical to | there was a the and (b) (a) and (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c | is of (b) (4) tablets for tablets for sequence QC863V tablets for (b) (4) tablets for tablets for sequence QC863V tablets for (b) (4) tablets for (b) . To cy of the standard area countries of Online Data Logger" So in for incubator temperature for the (b) (4) limit as it is nexcursions. | that  (b) (4)  Ithat  (b) (4)  Ithat  (c) (4)  Ithat  (d)  (d)  Ithat  (e) (4)  Ithat  (e) (4) |
| SEE REVERSE<br>OF THIS PAGE  | Justin A Boyd, Investigator Drug Cadre Thomas J Arista, National E   | xpert  | Justin A Boyd Investigator - Dedicated Drug Carter X Signed By 2000358686 X Date Signed 05-03-2019 10 40 56   | 5/3/2019   |

FORM FDA 483 (09/08) PREVIOUS EDITION OBSOLETE INSPECTIONAL OBSERVATIONS PAGE 21 of 23 PAGES

Programs Employee

|  | ALTH AND HUMAN SERVICES<br>UG ADMINISTRATION |
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| DISTRICT ADDRESS AND PHONE NUMBER                  | DATE(S) OF INSPECTION                        |
| 12420 Parklawn Drive, Room 2032                    | 4/22/2019-5/3/2019*                          |
| Rockville, MD 20857                                | FEINUMBER 3002984011                         |
| NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED |  |
| Umesh Kumar Gupta, Campus Head                     |  |
| FIRM NAME  | STREET ADDRESS                               |
| Cadila Healthcare Limited                          | 419 & 420 8a Village-Moraiya                 |
| CITY, STATE, ZIP CODE, COUNTRY                     | TYPE ESTABLISHMENT INSPECTED                 |
| Ahmedabad, Gujarat, 382210 India                   | Drug Manufacturer                            |
|  |  |

There is no documented rationale to explain how the critical, major, and minor limits for rejected parenteral vials during visual inspection are established. Sources of commonly observed major defects have not been further investigated, including high volume vials, low volume vials, or vials with fibers.

## **OBSERVATION 13**

Aseptic processing areas are deficient regarding the system for cleaning and disinfecting the room and equipment to produce aseptic conditions.

Sterile wipes used during cleaning of equipment in the ISO5 and ISO7 aseptic filling lines, intended to remove particles from equipment surfaces, were observed to contain loose fibrous threads.

### **OBSERVATION 14**

Master production and control records lack complete manufacturing and control instructions.

The (b) (4) process for Fill Line (b), during routine aseptic filling and the aseptic process simulation, the microbial growth media is transferred to a sterilized (b) (4) holding vessel in room (Grade B). A production room operator confirmed there is no written standard operating procedure, and/or in the BMR, that specifically describes and establishes that the tubing is to be manually transferred from the Grade B area into the Grade D room.

### \*DATES OF INSPECTION

4/22/2019(Mon), 4/23/2019(Tue), 4/24/2019(Wed), 4/25/2019(Thu), 4/26/2019(Fri), 4/29/2019(Mon), 4/30/2019(Tue), 5/01/2019(Wed), 5/02/2019(Thu), 5/03/2019(Fri)

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| OF THIS PAGE |   | Justin A Boyd<br>Investigator - Dedicated Drug  | 0/0/2013 |
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|              | Rita K Kabaso, Office of International                          |   |          |
|              | Programs Employee   |   |          |

FORM FDA 483 (09/08) PREVIOUS EDITION OBSOLETE INSPECTIONAL OBSERVATIONS PAGE 22 of 23 PAGES

#### DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION DISTRICT ADDRESS AND PHONE NUMBER 12420 Parklawn Drive, Room 2032 4/22/2019-5/3/2019\* FEI NUMBER Rockville, MD 20857 3002984011 NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED Umesh Kumar Gupta, Campus Head FIRM NAME STREET ADDRESS Cadila Healthcare Limited 419 & 420 8a Village-Moraiya TYPE ESTABLISHMENT INSPECTED CITY, STATE, ZIP CODE, COUNTRY Ahmedabad, Gujarat, 382210 India Drug Manufacturer

Thomas J Arista
National Expert
Signed By: Thomas J. Arista -S
Date Signed: 05-03-2019 10:41:25

Rifa K Kabaso Office of International Programs Employee Signed By 2001767329 Date Signed 05-03-2019 10 41 56

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Justin A Boyd, Investigator - Dedicated

Drug Cadre

Thomas J Arista, National Expert Rita K Kabaso, Office of International

Programs Employee

Justin A Boyd
Investigator - Dedicated Drug
Cadre
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FORM FDA 483 (09/08) PREVIOUS EDITION OBSOLETE INSPECTIONAL OBSERVATIONS PAGE 23 of 23 PAGES