DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION  10903 New Hampshire Ave,Bidg 51,Rm 4225 Silver Springs, MD 20993 (301)796-334 Fax:(301)847-8738 Jack 1987-8738 Jack						
10903 New Hampshire Ave_Bldg 51,Rm 4225  Silver Springs. MD 20993 (3017)96-3334 Fax:(301)847-8738 Industry Information: www.fda.gov/oc/industry  NAME AND TITLE OF INDIVIDUAL TOWNOM REPORT ISSUED  TO: Dr. Jacqueline A. Kurzler, Global Head of Quality  FIREN NAME Claris Injectables Limited CTY, STATE, JPP COUNTRY Ahmedabad, Gujarat, 382213 - India  Trye Est-Aussimemy Inspection 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 regarding an observation, or have any questions, please contact FDA at the phone number and address above.  DURING AN INSPECTION OF YOUR FIRM WE OBSERVED:  DURING AN INSPECTION of YOUR FIRM WE OBSERVED:  DURING AN inspection of action with the registers entry into classified areas by (104) access does not support the authenticity of environmental monitoring. Specifically, data in the (104) system that registers entry into classified areas by (104) access does not support the integrity or accuracy of paper based environmental monitoring reports. For example, per (104) January 4, 2017 Line (104) Ja						
Industry Information: www.fda.gov/oc/industry  MARMANTHEORY PROPRESSITES BEED  TO: Dr. Jacqueline A. Kunzler, Global Head of Quality  TRIN NAME  Claris Injectables Limited  Chacharwadi Vasna  TYPE ESTABLISHMENT INSPECTED  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 nation 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  Electronic records do not support the authenticity of environmental monitoring:  a. District of the integrity or accuracy of paper based environmental monitoring reports. For example, per District of the integrity or accuracy of paper based environmental monitoring reports. For example, per District of January 4, 2017 Line Dist						
TO: Dr. Jacqueline A. Kunzler, Global Head of Quality    STREET ADDRESS						
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Claris Injectables Limited  CTRY, STAPE, ZIP CODE, COUNTRY  Ahmedabad, Gujarat, 382213 - India  Terminally Sterilized Pharmaceutical 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  Electronic records do not support the authenticity of environmental monitoring.  a. (b)(4) data does not support documentation of environmental monitoring. Specifically, data in the (b)(4) access does not support the integrity or accuracy of paper based environmental monitoring reports. For example, per (b)(4) data the following individuals were absent from rooms where environmental monitoring purportedly occurred:  Item Date Operator Line (b)(4) Affected Batch (b)(4) Affected Batch (c)(4) Individuals (d) Individ						
Ahmedabad, Gujarat, 382213 - India  Terminally Sterilized Pharmaceutical 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  Electronic records do not support the authenticity of environmental monitoring:  a. bit at does not support documentation of environmental monitoring. Specifically, data in the system that registers entry into classified areas by access does not support the integrity or accuracy of paper based environmental monitoring reports. For example, per bit integrity or accuracy of paper based environmental monitoring purportedly occurred:  Item Date Operator Line in January 4, 2017 Line						
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a. (b) (4) data does not support the authenticity of environmental monitoring. Specifically, data in the system that registers entry into classified areas by access does not support the integrity or accuracy of paper based environmental monitoring reports. For example, per data the following individuals were absent from rooms where environmental monitoring purportedly occurred:    Item   Date   Operator   Line   (b) (4)   Affected Batch   (b) (4)   Line (4)   (b) (4)   (b						
a. (b) (4) data does not support the authenticity of environmental monitoring. Specifically, data in the system that registers entry into classified areas by access does not support the integrity or accuracy of paper based environmental monitoring reports. For example, per data the following individuals were absent from rooms where environmental monitoring purportedly occurred:    Item   Date   Operator   Line   (b) (6)   Line (6) (6)   Line (6) (6) (7)   Line (10) (10) (10) (10) (10) (10) (10) (10)						
a. (b) (4) lata does not support documentation of environmental monitoring. Specifically, data in the system that registers entry into classified areas by access does not support the integrity or accuracy of paper based environmental monitoring reports. For example, per lata the following individuals were absent from rooms where environmental monitoring purportedly occurred:    Item   Date   Operator   Line   (b) (4)   Affected Batch   (b) (4)						
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data the following individuals were absent from rooms where environmental monitoring purportedly occurred:    Item   Date   Operator   Line   Line   (b) (4)   Affected Batch						
ItemDateOperatorLineiJanuary 4, 2017LineiiJanuary 4, 2017LineiiiJanuary 6, 2017Line N/A						
ItemDateOperatorLineiJanuary 4, 2017LineiiJanuary 4, 2017LineiiiJanuary 6, 2017Line N/A						
i January 4, 2017 ii January 4, 2017 Line iii January 6, 2017 Line N/A						
ii January 4, 2017 Line iii January 6, 2017 Line						
iii January 6, 2017 Line N/A						
(b) (d)						
v January 9, 2017 Line						
vi January 10, 2017 Line						
VI January 10, 2017 Line						
(vii) Document "Report of Environment Monitoring By Settle Plate for (b) (4) Line" capturing the environmental monitoring of Line (b) (a) for January 6, 2017 specifies that operator conducted environmental monitoring for (b) (4) However, the (b) (4) system fails to support that this operator entered the room during those times. Specifically, the data indicates (b) (6) (6) (7) (9) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1						
TO CAMPAGA ALONG ATTEMPT						
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INSPECTIONAL OBSERVATIONS

PAGE 1 OF 17 PAGES

FORM FDA 483 (09/08)

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DISTRICT ADDRESS AND PHONE NUMBER 10903 New Hampshire Ave, Bldg 51, Rm 4225	DATE(S) OF INSPECTION 7/27/2017-8/4/2017*			
Silver Springs, MD 20993	FEI NUMBER			
(301)796-3334 Fax:(301)847-8738	3004610460			
Industry Information: www.fda.gov/oc/industry				
NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED				
TO: Dr. Jacqueline A. Kunzler, Global Head of Quality				
FIRM NAME	STREET ADDRESS			
Claris Injectables Limited	Chacharwadi Vasna			
CITY, STATE, ZIP CODE, COUNTRY TYPE ESTABLISHMENT INSPECTED				
Ahmedabad, Gujarat, 382213 - India	Terminally Sterilized Pharmaceutical Manufacturer			

Similar examples in June 2017 were noted, as evidenced by "Report of Environment Monitoring By Settle Plate" documents dated June 14, 18, 22 and 29.

Further, operator has no history in the system to support that they ever entered these areas to conduct environmental monitoring. Similarly, operator who is documented as conducting environmental monitoring in June 2017 has no history in the system.

A written statement was provided that explained "as of today that there are inconsistencies in the recording of controls in the 'Environmental Monitoring' area of the Claris Facility to the existing physical log books."

b. Electronic attendance records to support employee entrance to the facilities fail to support environmental monitoring. Specifically, environmental monitoring records indicate that environmental monitoring was conducted by personnel who were not denoted as present by this attendance system. Examples follow:

Date	Operator	Line	(b) (4)	Affected Batch
January 9, 2017	(b) (6)	Line(b)		(b) (4)
January 10, 2017		Line		
		Line		Ī
January 12, 2017		Line		
		Line		N/A
January 13, 2017		Line		N/A
January 15, 2017		Line		(b) (4)
		Line		N/A

The Senior Manager – Quality Assurance and Junior Manager – Microbiologist confirmed the discrepancies between the electronic attendance records versus the environmental monitoring records.

Firm management provided a paper based "Attendance Sheet for the month of Jan'2017" to explain the aforementioned inconsistencies between the attendance and environmental monitoring records. The Associate Vice President – Human Resource Management acknowledged that the

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SEE REVERSE OF THIS PAGE	Thomas J. Arista, Investigator Massoud Motamed, Investigator	08/04/2017

FORM FDA 483 (09/08)

PREVIOUS EDITION OBSOLETE

INSPECTIONAL OBSERVATIONS

PAGE 2 OF 17 PAGES

		TH AND HUMAN SERVICE G ADMINISTRATION	S	
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Silver Springs, MI	rer Springs, MD 20993			
(301)796-3334 Fax:(301)847-8738  Industry Information: www.fda.gov/oc/industry  NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED		30046104	460	
	vidual to whom report issued ine A. Kunzler, Global Head of Quality			
FIRM NAME	ile A. Kulizier, Global Head of Quality	STREET ADDRESS		
Claris Injectables I	Limited	Chacharwadi Vasna		
Ahmedabad, Gujar		Terminally Sterilized Pharm	naceutical Manufac	turer
"Attend  Note: (b) premise tendanc  c. The Sen plates. Monitor person. sign in a Corpora	data does not support that during the purported environmental ercord that the individuals were record that the individuals were record that Plate" forms with mu. The Senior Microbiologist explain a manner consistent with what was the Quality Assurance identified this ames [signatures]" in environmental	individuals noted in the all monitoring. Rather, of present.  r observation of Environ ogist was provided with a liple variations of signared all of these signatures captured in all of the document of the d	mental Monitori various "Environtures documential were his, but was	ing (EM) nmental ng the same as unable to ce President,
OBSERVATION  Controlled docs	ON 2 uments are not appropriately contro	olled:		
a. On July tion Tes	27, 2017, Operator (b) (6) was observed	d backdating the Quality " for (b) (4) Injection	Assurance "Vison USP batch (b) (c)	sual Inspec- in
complet	ection D titled "Manual VIT at the ti ed on July 26, 2017, however, the of was observed completing this doo	corresponding data is mis		
spection as "Che	ction E titled "Visual Inspection Re Machine)" indicates a visual inspected by Packaging", however, the was observed completing this doc	ction was completed on corresponding data is mis		at was signed
When a	sked about these discrepancies, the	Deputy General Manage	er stated "I don't	know".
SEE REVERSE OF THIS PAGE	Thomas J. Arista, Investigator Massoud Motamed, Investigator			08/04/2017
FORM FDA 483 (09/08)	PREVIOUS EDITION OBSOLETE	INSPECTIONAL OBSERVATIONS		PAGE 3 OF 17 PAGES

	DEPARTMENT OF HEAD FOOD AND DRU	LTH AND HUMAN SE G ADMINISTRATION					
DISTRICT ADDRESS AND P	HONE NUMBER Shire Ave, Bldg 51, Rm 4225		DATE(S) OF INSPECTION 7/27/2017-8/4/2017*				
Silver Springs, MD	Silver Springs, MD 20993		FEI NUMBER				
(301)796-3334 Fax Industry Information		30	004610460				
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FIRM NAME	ne A. Kunzler, Global Head of Quality	STREET ADDRESS					
Claris Injectables I	Limited	Chacharwadi Vasna					
Ahmedabad, Gujar			d Pharmaceutical Manufac	turer			
never pe	CQA/003 titled "Good Documents rmitted."  28, 2017, official, original docume ilding (the area used for the manufacture)	ntation were obser	rved in the "scrap" area				
Vice Pre	b.1 - Regarding a manually torn document with an original signed "Checked By" section, the Vice President, Quality stated that the document appears to be a quality investigation. No additional information regarding the signature or contents of the torn document was provided.						
b.2 - In a mation.	b.2 - In addition, there were manually torn pages with unexplained calculations and lot information.						
c. On August 2, 2017, the Senior Manager of Quality Assurance provided identical versions of endotoxin testing reports for lot (b)(4) and (b)(4) (both at time 3:26:03PM) containing unique signatures and writing styles. The dating and timing on both versions is purported to be identical.							
d. A paper shredder is maintained in the Quality Assurance area of the building (the area used for the manufacture of US products). The Senior Vice President – Manufacturing & Operations stated this shredder is utilized for "labels" and "printer errors". However, upon reviewing the paper shreds, we identified writing and stamps on the documents. Documentation supporting the content and reconciliation of destroyed documents was not available.							
e. There are paper shredders located in the following departments / locations i.e., packing department, QA/IPQA department, QA laboratory, in-coming materials warehouse and in the Corporate QA department. The Deputy General Manager Compliance confirmed that the departments do not register and/or maintain a record of all of the documents and paper records that are shredded.							
OBSERVATIO	ON 3						
Complaint follo	Complaint follow-up is deficient:						
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SEE REVERSE OF THIS PAGE	Thomas J. Arista, Investigator Massoud Motamed, Investigator	2/12		08/04/2017			

INSPECTIONAL OBSERVATIONS

PAGE 4 OF 17 PAGES

FORM FDA 483 (09/08)

PREVIOUS EDITION OBSOLETE

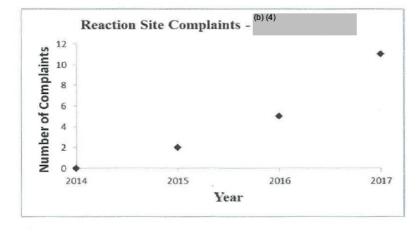
#### DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION DISTRICT ADDRESS AND PHONE NUMBER DATE(S) OF INSPECTION 10903 New Hampshire Ave, Bldg 51, Rm 4225 7/27/2017-8/4/2017\* Silver Springs, MD 20993 FEI NUMBER (301)796-3334 Fax:(301)847-8738 3004610460 Industry Information: www.fda.gov/oc/industry NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED TO: Dr. Jacqueline A. Kunzler, Global Head of Quality FIRM NAME STREET ADDRESS Claris Injectables Limited Chacharwadi Vasna TYPE ESTABLISHMENT INSPECTED CITY, STATE, ZIP CODE, COUNTRY Ahmedabad, Gujarat, 382213 - India Terminally Sterilized Pharmaceutical Manufacturer

In 2017, complaints were opened for Injection USP (4) Injection USP (4) mg/ml for injection site reactions such that the veins became red. For example, these complaints were attributed to "administration procedure" with no requisite for corrective or preventative actions.

Complaint		Product	Number of Affected Patients
C1/PCR/2017/013	(b) (4)	Injection	6 (2 with batch (b) (4)
C1/PCR/2017/028		Injection	1 (batch (b) (4)
C1/PCR/2017/029	Ī	Injection	1 (batch (b) (4)

The General Manager of Corporate Quality Assurance explained that these site reactions may be attributed to drug product not being pyrogen free (presence of bacterial endotoxin). The complaint investigation relied on additional product testing without further follow-up. The Senior Manager of Quality Assurance elaborated that endotoxin levels are homogenous ("throughout") a batch and it would be expected for an endotoxin contamination to be ubiquitous throughout the batch.

Incidents related to injection site reactions for have been increasing as summarized below:



### **OBSERVATION 4**

Out-of-Specification (OOS) results are invalidated without an adequate justification:

OOS results pertaining to the US market are frequently invalidated and described below:

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08/04/2017

FORM FDA 483 (09/08)

PREVIOUS EDITION OBSOLETE

INSPECTIONAL OBSERVATIONS

PAGE 5 OF 17 PAGES

DEPARTMENT OF HEALTH AND HUMAN SERVICES						
FOOD AND	D DRUG ADMINISTRA	ATION				
DISTRICT ADDRESS AND PHONE NUMBER		DATE(S) OF INSPECTION				
10903 New Hampshire Ave, Bldg 51, Rm 4225		7/27/2017-8/4/2017*				
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TO: Dr. Jacqueline A. Kunzler, Global Head of Qua	lity					
FIRM NAME	STREET ADDRESS					
Claris Injectables Limited Chacharwadi V		Vasna				
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Year	Valid OOS	Invalid OOS	% Invalidated
2016	41	9	82
2017	58	9	87

a. The following OOS results for stability samples were invalidated due to "column efficiency". No chromatographic errors were discerned, including retention times, theoretical plates and tailing factor. Nevertheless, the OOS results were invalidated and passing retest results were reported. When asked if these results would have been invalidated should they have yielded passing result, the Deputy Manager of Stability Studies stated "never".

oos		Product		Batch	A	nalysis
OOS/2017/CF/004	(b) (4)	Injection	(b) (4)		(b) (4)	Assay
OOS/2017/CF/007		Injection	(b) (4)	& <sup>(b) (4)</sup>		Assay

b. 9 of 16 invalid OOSs pertaining to stability samples were invalidated due to dilution/pipetting errors. Despite 56% of OOS results invalidated due to dilution/pipetting errors, no comprehensive CAPA has been opened trainings regarding sample preparation are reported in the past two years). The following include examples of invalidated OOSs without adequate justification:

b.1 - The following OOSs for content of Injection were invalidated due to an assignable cause of standard solution contaminating the sample solution in the pipette. The OOS results were above specification. However, the standard solution yielded a lower peak area than the sample. It is unclear how a solution of lower content contaminating the sample would yield an OOS above the specification. The OOS results were invalidated and passing retest results were reported.

oos		Product	Batch	(b) (4		cification mg)
OOS/2017/CF/002	(b) (4)	Injection	(b) (4)	(b) (4)	mg	
OOS/2017/CF/027		Injection		(6) (4)	mg	
OOS/2017/CF/020		Injection	Various	(b) (4)	(b) (4)	mg

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08/04/2017

FORM FDA 483 (09/08)

PREVIOUS EDITION OBSOLETE

INSPECTIONAL OBSERVATIONS

PAGE 6 OF 17 PAGES

		LTH AND HUMAN SERVICES	
DISTRICT ADDRESS AND PH	ONE NUMBER	IG ADMINISTRATION  DATE(S) OF INSPECTION	
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TO: Dr. Jacquelii	ne A. Kunzler, Global Head of Quality	STREET ADDRESS	
Claris Injectables L	imited	Chacharwadi Vasna	2000
Ahmedabad, Gujara		TYPE ESTABLISHMENT INSPECTED Terminally Sterilized Pharmaceutical Manufac	cturer
idated du chromate formed to on the in	ographic sequence was interviewed the pipetting and dilution for generaterview of the analyst that perform out OOS/2017/CF/018 pertaining to Injection (batches and not be identified). The failing	of a dilution/pipetting error. The analysis, the interview did not include the analysis ating the sample. The OOS results were need the chromatography.  To stability samples for (b) (4) permit of (b) (4) permit were invalidated with "assis.	st who per- invalidated eability of
OBSERVATIO	ON 5		
to the personnel 27-28 separate a building structure	entryways that lead into the controvers in the ceiling where water was all material. This is evident, for exwater on the personnel corridor floor	within the personnel corridor (Note: corridor (Note: corridor classified manufacturing areas) apps either dripping, seeped and/or soaked trample, by water dripping from the ceiling our and varied water stains on the walls of	roximately hrough the ng, a small
building b. There is that it all (Note: by c. There is	wall structure material; a ceiling panel over the personnel ows the ingress of air from the but y touch the ceiling material appear a ceiling panel and opening (appro	corridor lighting fixture that is open (not ilding's plenum and location of the air hed to be a bit damp); oximate 45.72cm x 5.05cm) over the ling's plenum into the post sterilization a	t sealed) such andling units
OBSERVATIO	ON 6		
Media fill recor	ds are false:		
a. The mos Senior E batch red	cord.	completed in December 2016 ledged that microbiology completed the	media fill
SEE REVERSE OF THIS PAGE	Thomas J. Arista, Investigator Massoud Motamed, Investigator		08/04/2017
FORM FDA 483 (09/08)	PREVIOUS EDITION OBSOLETE	INSPECTIONAL OBSERVATIONS	PAGE 7 OF 17 PAGES

DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION		
DISTRICT ADDRESS AND PHONE NUMBER 10903 New Hampshire Ave, Bldg 51, Rm 4225	DATE(S) OF INSPECTION 7/27/2017-8/4/2017*	
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The batch record was signed by Senior Executive Microbiologist on December 4, 2016. However, the Senior Executive Microbiologist was off on this date.

The reconciliation for media fill vials for batch ment entitled "Summary of Process Simulation Study" (document C1/MFIL/TERMINAL) indicates that containers had been filled with containers incubated. However, the batch record documents 7 vials had been rejected. Furthermore, the number of rejects between the "Summary of Process Simulation Study" and the "Batch Manufacturing Record" for batch is irreconcilable.

b. The most recent media fill for Line (4) (batch completed in December 2016) is false. The Senior Microbiologist confirmed that microbiology department completed the media fill batch record.

The Senior Executive Microbiologist completed the batch record on December 30, 2016 after 08:54. However, the attendance records document that they completed the documents that the record was completed in the afternoon of December 30, 2016. The Senior Executive Microbiologist acknowledged writing this page despite not being present on the premise during these times. The reconciliation for media fill vials for batch exceeds 100%. The "Record of Observation for Incubated Containers" (form SF/C1/MFIL/SVP/013) indicates that containers had been observed after incubation). However, per the Batch Manufacturing Record and "Summary of process simulation Testing (Media fills trial)" (document (C1/MFIL/SVP) indicates that only containers had been subject to incubation.

c. Regarding personnel movement in fill line (4) the layout of the fill equipment, design of the ISO-5 area within the ISO-7 room requires gowned personnel to go he fill line conveyor belt; a similar concern and personnel movement occurs in the vial capping line.

#### OBSERVATION 7

Aseptic technique is deficient:

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FORM FDA 483 (09/08)

PREVIOUS EDITION OBSOLETE

INSPECTIONAL OBSERVATIONS

PAGE 8 OF 17 PAGES

DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION		
DISTRICT ADDRESS AND PHONE NUMBER 10903 New Hampshire Ave, Bldg 51, Rm 4225	DATE(S) OF INSPECTION 7/27/2017-8/4/2017*	
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During the manual intervention the fill room operator was observed manually placed the lid of the EM settle plate covering the petri dish, which precludes from obtaining a representative EM sample during the manual intervention.

- a. The EM personnel was observed placing their gloved hand under the RABs barrier and into the ISO-5 fill zone while positioning the NVP probe in order to conduct the NVP measurements.
- b. During NVP measurements a leak from a filling was observed on the fill line with an accumulation of liquid in the ISO-5 fill zone.
- c. After the NVP measurements were taken the fill room operator conducted a manual intervention to replace the fill the RABs access was opened throughout a period of During this time, the operator's was observed within the ISO-5 fill zone, which included frequently contacting the RAB's
- d. Subsequent the aforementioned activities noted above the were not subject to cleaning/sanitization.

  (b) (4) and the area surrounding the fill

# **OBSERVATION 8**

The air flow pattern evaluations (aka smoke studies) are performed to "demonstrate and assure that the LAFs" in the ine and bline "are capable enough to provide Unidirectional Air flow to the work station and there are not turbulence observed and/or any non-unidirectional movement of the air observed so as to maintain the laminarity of the air flow with the LAF work station." Similar air flow pattern considerations and evaluation principles have been performed in support of the area qualification for the time. A review of the air flow pattern videos document the following concerns e.g.;

- a. There are a number of instances documented in the videos where there is no smoke placed over the personnel manual interventions in order to visualize the impact upon the unidirectional flow of air within the ISO-5 area;
- b. There is no simulation regarding opening and closing of RABs access to demonstrate that the unidirectional flow of air is not compromised during routine operations;

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FORM FDA 483 (09/08)

PREVIOUS EDITION OBSOLETE

INSPECTIONAL OBSERVATIONS

PAGE 9 OF 17 PAGES

	F HEALTH AND HUM D DRUG ADMINISTRA		
DISTRICT ADDRESS AND PHONE NUMBER 10903 New Hampshire Ave, Bldg 51, Rm 4225		DATE(S) OF INSPECTION 7/27/2017-8/4/2017*	
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FIRM NAME	STREET ADDRESS		
Claris Injectables Limited	Chacharwadi	Vasna	
CITY, STATE, ZIP CODE, COUNTRY	TYPE ESTABLISHM	ENT INSPECTED	
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- c. There are a number of instances when personnel perform some form of manual interventions within the ISO-5 area. However, due to the position of the fill room personnel, their position blocks the video camera and prevented the ability to observed the manual intervention and the impact upon the unidirectional air flow;
- d. Fill room personnel perform a manual intervention (b) (4) the conveyor that transfers the glass vials from the fill equipment to the vial capping station. The manual intervention requires opening the (b) (4) of the conveyor enclosure, at which time the conveyor's ISO-5 interior is exposed to the ISO-7 environment;
- e. During the above manual intervention noted above, personnel are performing the task within an ISO-7 environment. There is no physical partition to separates and control the ISO-5 from the ISO-7 environment.

# **OBSERVATION 9**

The "Clean Room Monitoring" document #C1/QAD/004 establishes "two methods of environmental monitoring" i.e., physical and microbial monitoring. "Microbial monitoring aims at obtaining representative estimation of bio-burden of the environment and detecting an adverse drift in trend of microbiological conditions, in a timely manner, which would allow for meaningful and effective actions." Regarding the microbial alert and actions limits, the environmental monitoring (EM) program establishes, ing controlled areas. The EM data for the last three years document microbiological counts, dependent of the ISO classification of the manufacturing area (within a range from (4) (4) (4) cfu), are well below the current microbial limits. The EM microbial alert and action limits are not established or based on the historical performance that is documented in the EM data. In addition,

a. The microbial alert and action limits for the Line was initially established from Sept. 18, 2011 to Feb. 01, 2012, for the Line on Jan. 01, 2008 and for the Line on Feb. 04, 2008. The EM data obtained and established from the aforementioned previous years continues as the microbiological foundation in support of the current EM program microbial limits. There are a number of discrepancies with respect to the current EM sampling and data that have a direct impact upon the microbial alert and action limits. For example, there are current EM sampling locations that do not correspond to the initial EM sampling locations, there are current EMPLOYEE(S) SIGNATURE

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08/04/2017

FORM FDA 483 (09/08)

PREVIOUS EDITION OBSOLETE

INSPECTIONAL OBSERVATIONS

PAGE 10 OF 17 PAGES

	HEALTH AND HUMAN SERVICES DRUG ADMINISTRATION	
DISTRICT ADDRESS AND PHONE NUMBER 10903 New Hampshire Ave, Bldg 51, Rm 4225	DATE(S) OF INSPECTION 7/27/2017-8/4/2017*	
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CITY, STATE, ZIP CODE, COUNTRY	TYPE ESTABLISHMENT INSPECTED	
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sampling areas that are a modification of the original sample site and/or EM sampling is no longer taken from areas that was initially sampled;

- b. The Senior Manager of Quality Assurance provided a verbal explanation regarding a variety of considerations and details that were used with respect to the rationale that assisted with establishing the EM sampling locations. However, the specific microbiological considerations and/or explicit details are not part of, or described in, the current "Rationale for Environmental Monitoring Locations" document #Ex/C1/QAD/004.15;
- c. The "Clean Room Monitoring" document #C1/QAD/004 establishes "... procedures and methods to be used for monitoring Physical parameters... and microbial parameters." Regarding microbial contaminants the procedure instructs to "Incubate the plates... at 20-25°C for 3 days (72 hours). After completion 3 days of incubation transfer the plates to incubates at 30-35°C for 2 days (48 hours)." There is an inconsistent set of instructions with regards to the length of incubation for the bacteria and mycological microorganisms, in that, the "Media Preparation" procedure (document #C1/QAD/043) establishes an incubation period of 3 and hours. The procedure (document #SF/C1/QAD/038.01" instruct to "\*Perform observation for Bacteria on 3rd day and for yeast/mold on ";
- d. The "Trend Management" document #C1/QAD/012 define and establish "the procedures to be used for trending of Critical Quality Attributes of the product for ongoing monitoring and establishment of trend limits and investigating out-of-trend (OOT) or questionable results observed." This would include the use of the "Monitoring" and "Clean Room Monitoring" procedures. The "Clean Room Monitoring" procedure contains language that provides specify instructions regarding the preparation of a summary report that is based on bbservations of the EM data i.e., NVP, passive microbial plate counts and active microbial air sampling. However, the procedure is silent with respect to the inclusion and assessment of the personnel monitoring data.

#### **OBSERVATION 10**

The "Validation	n Master Plan" (VMP) docu	ment #VM/QA01 establishes that (b) (4)	shall also be fre-
quently monito	red to cover all the	variations and to have history of data th	at will prove the con-
sistent (b) (4) qu	ality required for parenteral	preparation." Regarding the (b) (4)	here
SEE REVERSE OF THIS PAGE	Thomas J. Arista, Investigator Massoud Motamed, Investigator	to some some	08/04/2017

FORM FDA 483 (09/08)

PREVIOUS EDITION OBSOLETE

INSPECTIONAL OBSERVATIONS

PAGE 11 OF 17 PAGES

	DEPARTMENT OF HEAL	TH AND HUMAN SERVICES
	FOOD AND DRUG	GADMINISTRATION
DISTRICT ADDRESS AND PHONE NUMBER 10903 New Hampshire Ave, Bldg 51, Rm 4225		DATE(S) OF INSPECTION 7/27/2017-8/4/2017*
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Claris Injectables I	imited	Chacharwadi Vasna
CITY, STATE, ZIP CODE, CO	UNTRY	TYPE ESTABLISHMENT INSPECTED
Ahmedabad, Gujar	at, 382213 - India	Terminally Sterilized Pharmaceutical Manufacturer
tions. The hose consists of remo (b) (4) sa es/pipes. In add	e tilling machine and varied (s/4) s/pipes range from (h) to (b) (in len oving the equipment hoses/pipes from pling device; the sampling of the	(b) (4)
b. There is	POU site for routine manufacturing no microbiological monitoring data oses/pipes.  N 11	75770
	toring is deficient:	
	anual method that is used to obtain	n that there is no record to support the effectiveness the NVP measurements:
cedures "Clean I	governing NVP monitoring, "Air Pa Room Monitoring" procedure C1/Q measurement i.e. of holding to	nts are obtained is not defined. Specifically, the pro- articulate Counter" procedure C1/QAD/060 and AD/004 are silent with regards to the manner to con- he probe, distance of the probe within the Class A
b. On 07/27/2017, we observed NVP monitoring is performed under static conditions. Further, the probe to the device is not held consistently to the surface to ensure accuracy; rather the NVP probe was observed being held at an owards the line. There is no dynamic NVP monitoring performed and no assurance that the ISO-5 fill zones are appropriately maintained during the dynamic filling process.		
is no rec		nd Junior Manager – Microbiologist, stated that there measurements conducted in the manner described non-viable particulates.
ODE DELIBEROR	Thomas J. Arista, Investigator	DATE ISSUED
SEE REVERSE OF THIS PAGE	Massoud Motamed, Investigator	08/04/2017

FORM FDA 483 (09/08)

PREVIOUS EDITION OBSOLETE

INSPECTIONAL OBSERVATIONS

PAGE 12 OF 17 PAGES

DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION		
DISTRICT ADDRESS AND PHONE NUMBER 10903 New Hampshire Ave, Bldg 51, Rm 4225	DATE(S) OF INSPECTION 7/27/2017-8/4/2017*	
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OBSERVATION 12		
The nspection equipment is used to	detect pinholes (b) (4) in an	nd Non-(b) (4)
hage of finished drug products. The hagie principle		
which detects a defective bag by (b) (4)	(b) (4)	
in the intact bag. There is a lower and upper ing the filled bags for leaks. The Assistant Genera	et point that establishes the ran	
not calibrate the equipment. The lack of calibration		
lower set points that are used to reject leaking bags		e apper una
a. The PQ includes a (b) (4) test of the filled	bags, which consists of (b) (4)	
43.43	The test is performed via the vice. The Assistant General Manager-En	
Services confirmed that there is no written		_
which the test is performed;		7,101
b. The Process Performance Qualification (PP leak test challenge performed at the (b) (4) leak test challenge consists of using tant General Manager – Engineer Services at they do not perform random pinhole leak test challenge is performed at the afore flective of normal operations;	of a typical filling p pags with known pinholes. and Senior Manager Quality Assurance of st challenges during the PPQ process. Rementioned established time periods, wh	rocess. The The Assis- explained that Rather, the ich is not re-
c. Production personnel perform a visual inspection of the filled bags manually loading the filled bags into the checking for "leakage, printing, improper closure and other rejections". The General Manager – Training & Development confirmed that the visual inspection training does not consist of, for example, visuals aids that assists to illustrate the specific bag related anomalies or written descriptions of the quality attributes that the visual inspection personnel are required to inspect.		
OBSERVATION 13		
Regarding (b) (4) sterilization process for the sterilizers (b) (4) ea.) the process performance qualifica-		
tion (PPQ) is subject to an (b) (4) revalidation. The Senior Manager Quality Assurance confirmed that		
SEE REVERSE OF THIS PAGE Thomas J. Arista, Investigator Massoud Motamed, Investigator		08/04/2017
FORM FDA 483 (09/08) PREVIOUS EDITION OBSOLETE	NSPECTIONAL OBSERVATIONS	PAGE 13 OF 17 PAGES

DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION		
DISTRICT ADDRESS AND PHONE NUMBER 10903 New Hampshire Ave, Bldg 51,Rm 4225		PATE(S) OF INSPECTION 1/27/2017-8/4/2017*
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CITY, STATE, ZIP CODE, COUNTRY	TTY, STATE, ZIP CODE, COUNTRY TYPE ESTABLISHMENT INSPECTED	
Ahmedabad, Gujarat, 382213 - India	Terminally Steriliz	ed Pharmaceutical Manufacturer

there is no written procedure to define and establish the manner of how to place the within the sterilizer's interior chamber. In addition,

- a. The studies include the use of (BI) challenge with a 10 to the 6<sup>th</sup> concentration of spores, which is used to ensure the sterilization process provides at least a 6-log reduction. The Senior Manager of Quality Assurance explained that there is no written procedure to define and establish the manner of preparing the BI spore suspensions that are used for the (b)(4) evaluations that in turn support the PPQ;
- b. There are (b)(4) different load configurations for the various finished drug products, e.g., filled and Non bags (range from (b) ml to ml), that are subject to the sterilization cycles. The unique load configurations illustrate the required placement of the arrent products in a defined number of in the sterilizer's (b)(4) with a retinue of senior managers (e.g., Senior Vice President Manufacturing & Operations, Deputy General Manager of Compliance, Senior Manager Quality Assurance, Assistant General Manager Engineering Services) we observed separate individuals, including an IPQA representative that work in the sterilizer loading area as they unsuccessfully attempted to locate a copy of the different load configurations from different document wall display stands and tubs. The load configuration and diagrams are not readily displayed such that the production operators can reference the sterilization load patterns.

### **OBSERVATION 14**

Analytical method validation for endotoxin testing via a kinetic turbidimetric method is deficient:

There is no procedure for conducting analytical method validation pertaining to microbiological test methods.

a. The Validation Master Plan (VMQA/01) establishes a supplier based qualification when "the adequacy of the document(s) shall be ensured before their approval and considered for use." However, instrument qualification for a kinetic turbidimetric method for endotoxin testing was conducted under to "WinKQCL 5 Qualification Manual" provided by the vendor with no accompanying demonstration that the adequacy of the documentation had been ensured.

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SEE REVERSE OF THIS PAGE	Thomas J. Arista, Investigator Massoud Motamed, Investigator	08/04/2017

FORM FDA 483 (09/08)

PREVIOUS EDITION OBSOLETE

INSPECTIONAL OBSERVATIONS

PAGE 14 OF 17 PAGES

	LTH AND HUMAN SERVICES G ADMINISTRATION	
DISTRICT ADDRESS AND PHONE NUMBER 10903 New Hampshire Ave, Bldg 51, Rm 4225	DATE(S) OF INSPECTION 7/27/2017-8/4/2017*	
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CITY, STATE, ZIP CODE, COUNTRY	TYPE ESTABLISHMENT INSPECTED	
Ahmedabad, Gujarat, 382213 - India	Terminally Sterilized Pharmaceutical Manufacturer	
PPQ/C1/IND/21) fail to provide objective of During the validation of Injectests were conducted, 6 failing to meet accereport is silent with regards to ED".  c. Of assays utilizing this kinetic turbiding 6 laboratory error reports (approximately 4) endotoxin testing, gel clot analysis was per endotoxin testing via the kinetic turbidimet	the bacterial endotoxin tests being "DISREGARD- netric method, there have been 39 OOS incidents and % of all tests). During kinetic turbidimetric bacterial formed simultaneously. During this time, 7 tests for ric bacterial endotoxin testing failed to meet the activate not evaluated to determine root cause and the clot tests.	
OBSERVATION 15		
that are recovered via the EM program, USP Steril crobiological analyses. The I/OQ and Performance gust 2016. The PQ established an identification che (ATCC genus and species) to include <i>Bacillus sub</i>	e Qualification (PQ) was performed in June and Au- hallenge (Phase I) with five separate microorganisms tilis and a separate EM microbiological isolate. The aggedness tests. Of the challenge microorganisms, the	
a. In the event that the loes not identify an unknown microbe to a high level percentage of probability, the unknown microbe's biochemical/biopattern results can be added to the identification library via the Regarding the unsuccessful identification of the Bacillus species challenge noted above, the biopattern was added via the was then able to successfully identify the Bacillus subtilis ATCC microbial standard. The PQ protocol does not include language that allows for the addition of biochemical/biopattern results for microorganisms that are not successfully identified by the System;		
b. The system is a computer controlle alarmed conditions that may occur during t	d system that captures and records varied (b) (4) he microbial identification process. The Senior Man-	
SEE REVERSE OF THIS PAGE  Thomas J. Arista, Investigator Massoud Motamed, Investigator	08/04/2017	

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CITY, STATE, ZIP CODE, COUNTRY	TYPE ESTABLISHMENT INSPECTED	
Ahmedabad, Gujarat, 382213 - India	Terminally Sterilized Pharmaceutical Manufacturer	

ager Quality Assurance confirmed that there is no record to document a review of the alarmed events, which would ensure that the alarmed events do not negatively impact upon the microbiological identifications;

c. The System automatically performs a packup of the database (e.g., all microbiological identifications, personnel access of the system, audit trails, and alarmed events), which includes an ability of supported backup methods via external hard drive. The Senior Manager Quality Assurance confirmed that the practice of performing the supported backup method is no longer performed and the external hard drive has been removed. And, while the "Change Management System – Corporate Functions" document #CF/CQA/034 defines and establishes the procedures for management changes and its documentation e.g., "procedural steps for change request, review, risk and impact assessment, approval implementation and verification of effectiveness of the changes/s requested", the Senior Manager Quality Assurance confirmed that there is no record to document the aforementioned change regarding the external hard drive.

# **OBSERVATION 16**

The Validation Master Plan (VMP) document #VM/QA/01 establishes the Installation and Operational Qualifications (I/OO) requirements (i.e., "build and installed in compliance with their design specifications". The an automatic (computer control and high resolution camera) colony counter that is used to count microbiological colonies, characterize the microbiological contaminants and record the color photographs of contaminants from the environmental monitoring microbial media. The Senior Manager of Quality Assurance explained that they (Claris) did not perform an I/OQ of the microbiological colony counting system. Rather, a two page checklist was provided by the vendor with respect to the I/OQ. There is no record to support that the I/OQ was reviewed and approved by the Quality Unit to ensure that the specifications".

# **OBSERVATION 17**

The "Functions and Roles & Responsibilities" document #CF/HRM/001 establishes and "...defined methodology for preparing functions, operational roles & responsibilities and organization operational structure of the departments." This would include but not limited to, for example, "... ensure implementation and maintenance of Current Good Manufacturing Practices (cGMP) standards and all applicable international quality standards in the plant." Despite the establishment of the aforementioned responsi-

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Massoud Motamed, Investigator

08/04/2017

FORM FDA 483 (09/08)

PREVIOUS EDITION OBSOLETE

INSPECTIONAL OBSERVATIONS

PAGE 16 OF 17 PAGES

DEPARTMENT OF HEALTH AND HUMAN SERVICES		
FOOD AND DRUG ADMINISTRATION		
DISTRICT ADDRESS AND PHONE NUMBER 10903 New Hampshire Ave, Bldg 51, Rm 4225	DATE(S) OF INSPECTION 7/27/2017-8/4/2017*	
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Industry Information: www.fda.gov/oc/industry		
NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED		
TO: Dr. Jacqueline A. Kunzler, Global Head of Quality		
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Claris Injectables Limited	Chacharwadi Vasna	
CITY, STATE, ZIP CODE, COUNTRY	TYPE ESTABLISHMENT INSPECTED	
Ahmedahad Guigrat 382213 - India	Terminally Sterilized Pharmaceutical Manufacturer	

bilities the Senior Executive Human Resources Management confirmed that there is no individual who is responsible for, or in charge of, overall Quality Assurance during the manufacturing operations that occur during the production production

# **OBSERVATION 18**

The "Continued Process Verification Program" (CPVP) document #CF/QA/028 establishes an "ongoing assurance that the process remains in a state of control (the validated state) during commercial manufacture." "The purpose of this procedure is to identify and summarize the current systems within Claris Injectables Limited which are implemented to evaluate the performance process, identify potential problems and determine whether action must be taken to correct, anticipate, and prevent problems so that the process remains in a state of control throughout the lifecycle." The implementation of the CPVP "will ensure adherence to the CGMP requirements (specifically, the collection and evaluation of information and data about the performance of the process) and will promote detection and remediation of undesired process variability." The list of objectionable conditions document a number of instances where the Quality Unit has not effectively "evaluate the performance process, identify potential problems and determine whether action must be taken to correct, anticipate, and prevent problems so that the process remains in a state of control throughout the lifecycle."

## \*DATES OF INSPECTION

7/27/2017(Thu),7/28/2017(Fri),7/29/2017(Sat),7/31/2017(Mon),8/01/2017(Tue),8/02/2017(Wed),8/03/2 017(Thu),8/04/2017(Fri)

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08/04/2017

FORM FDA 483 (09/08)

PREVIOUS EDITION OBSOLETE

INSPECTIONAL OBSERVATIONS

PAGE 17 OF 17 PAGES