DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION			
DISTRICT OFFICE ADDRESS AND PHONE NUMBER CDER Division of Inspectional Assessment; Attn. Mahesh Ramanadham, Director E-MAIL: Mahesh Ramanadham@fda.hhs.gov; PHONE +1-301-796-3272 Mail address: 10903 New Hampshire Ave. White Oak Building 51, Room 4328 Silver Spring, MD-20993 Industry Information: www.fda.gov/oc/industry		DATE(S) OF INSPECTION March 27 to April 7, 201 FEI NUMBER 3003981475	7
NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT IS ISSUED	Company	2.0	
To: Arun Chandavarkar, Ph.D., CEO & Joint Managing Director,	STREET ADDRESS		
FIRM NAME	C. C	, Bommasandra-Jigani Ro	ad
Biocon Limited 344		INSPECTED	
CITY, STATE AND ZIP CODE		Drug Product Manufacturin	g Facility
Bangalore, Karnataka 560099, India THIS DOCUMENT LISTS OBSERVATIONS MADE BY THE FDA REPRESENTATIONS MADE BY THE FDA REPRESENTA			
DESERVATION, OR HAVE IMPLEMENTED, OR PLAN TO IMPLEMENT CORRECTION OR SUBMIT THIS INFORMATION TO FDA AT THE ADDRESS ABOVE. IF OBJECTION OR ACTION WITH THE FDA REPRESENTATIVE(S) DURING THE INSPECTION OR SUBMIT THIS INFORMATION TO FDA AT THE ADDRESS ABOVE. THE PHONE NUMBER AND ADDRESS ABOVE. DURING AN INSPECTION OF YOUR FIRM OF (WE) OBSERVED. 1. There are discrepancies between the information submitted in (b) (4) and the manufacturing process performed at Biocon Ltd. For example, a. In-process specifications document QC/Q8/SPEC/IP/064 lists (b) (4) tests at steps as "Report Value"; however, section 3.2.S.2.4 of (b) (4) in-process action limits:			
limits," "limits," or undefined specification drug substance. Specifically, i. BMR-F-P02-700000868 for the less than (b) (4) cells/ml or more the however, the parameter has an acception ii. BMR-F-P02-700000868 states "if recontinue"; however, the parameter limitation iii. The hydrophobic interaction chromatics exclusion chromatography (SE reduced (rCE-SDS) are controlled as	3.2.S.2.2) as "accept as in the batch manual production bioream cells/ml ptance criterion in esidual is let has an acceptance criatography in-process as acceptance range.	tance criteria" are defifacturing record for the ctor states "if the cell of take a deviation and control in the control specification in secontrol specification duced (nrCE-SDS) and s in but a	ined as "action eb (b) (4) concentration is ontinue"; deviation and s for (b) (4) by
REVERSE OF THIS KINT NORTH MALE	PhD: Lindsey Brown, Ph	hD; Lakshmi Narasimhan, D; Sarah Kennett, PhD; aria Teresa Gutierrez-Lugo D; Michael Shanks, MS	04/07/2017

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DEPARTMENT OF FOOD AND	HEALTH AND HUMAN SERV D DRUG ADMINISTRATION		
DISTRICT OFFICE ADDRESS AND PHONE NUMBER		DATE(S) OF INSPECTION	*
CDEP Division of Inspectional Assessment: Attn. Mahesh Ramanadham, Director		March 27 to April 7, 201	7
E-MAIL: Mahcsh.Ramanadham@fda.hhs.gov; PHONE +1-3	ing 51, Room 4328	FEI NUMBER	
Mail address: 10903 New Hampshire Ave. White Oak Building 51, Room 4328 Silver Spring, MD-20993		3003981475	- 1
Industry Information: www.fda.gov/oc/industry		3003981473	
NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT IS ISSUED			
TO: Arun Chandavarkar, Ph.D., CEO & Joint Managing Dire	ector, Corporate		
FIRM NAME	STREET ADDRESS	76 4 7	22
Biocon Limited	Plot No 2-4, Phase	e IV, Bommasandra-Jigani Ro	ad
CITY, STATE AND ZIP CODE	TYPE OF ESTABLISHM	ENT INSPECTED	
Bangalore, Kamataka 560099, India	Drug Substance an	and Drug Product Manufacturing Facility	
"limits" in the corresponding be		1 DAME E DOL 70000	1072
drug substance. i. MM/QA/SOP/004 "Review of of Batch Release and Generation does not have any impact on the pending closure due to some of justification" (Section 6.4.d). "quarantine status. ii. BF/QA/SOP/004 "Review of Hof Batch Release and Generation evaluate the deviation and OO manufacturing. b. The procedure for approving the test in	on of CoA" for drug sine product/batch based ther reasons, then batch This is a "full" release Batch Records, Analytion of CoA" for drug post status of the drug supposes the country of the drug supposes the country for in process security for in	on the completed impact the can be released with ap a, not a release under condical Report, Relevant Reproduct does not include a obstance used for the drug	assessment, but propriate litional cords, Approval requirement to product
SOP/029 "Testing and Approval/Rejection") allows the analyst performing the testing to also perform the review of the data and release the data to QA or make a raw material usage decision in SAP. i.: For in process samples, Section 6.7.6 states that "after completion of analysis, results are entered in TI sheet/BMR sheet and signed by the analyst." Then, Section 6.7.7 states that "the TI/BMR sheet with meta data will be reviewed and released with signature and date (signature can be either self or by a second analyst)." ii. For raw materials, Section 6.1.9 states "once the analysis is completed by analyst, results review and usage decision in SAP can be done from the same personnel whenever applicable."			
	sing the culture/indica	tor cell method consist of	the unprocessed
SEE REVERSE OF THIS EMPLOYEE(S) SIGNATURE Construction Construction EMPLOYEE(S) NAME AND Reves Candau-Chacon PhD; Lindsey Brown, Kristen Nickens, PhD;		on, PhD; Lakshmi Narasimhan, , PhD; Sarah Kennett, PhD; O; Maria Teresa Gutierrez-Lugo PhD: Michael Shanks. MS	04/07/2017

INSPECTIONAL OBSERVATIONS

FORM FDA 483 (9/08) PREVIOUS EDITION OBSOLETE

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FOOD AND DRUG ADMINISTRATION		DATE(S) OF INSPECTION	
CDER Division of Inspectional Assessment; Attn. Mahesh Ramanadham, Director E-MAIL: Mahesh.Ramanadham@fda.hhs.gov; PHONE +1-301-796-3272 Mail address: 10903 New Hampshire Ave. White Oak Building 51, Room 4328 Silver Spring, MD-20993 Industry Information: www.fda.gov/oc/industry		March 27 to April 7, 2017	- 1
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: Arun Chandavarkar, Ph.D., CEO & Joint Managing I			
M NAME Plot No 2-4, Ph Type OF ESTABLE		e IV, Bommasandra-Jigani Road	
		ENT INSPECTED	
angalore, Kamataka 560099, India	Drug Substance a	nd Drug Product Manufacturing Facility	
(b) (4)		BF/QC/SOP/080 "Sample Handl	ing
bull and Outsourcing to Contract Testing	Laporatory J.	i i i i i i i i i i i i i i i i i i i	× 1
and Outsomeing to Conduct 125-12-2	Partie is the rest to the second	a and a second	
 Unprocessed bulk bioburden sample not mixed prior to testing and the te 	est is conducted with the	ng area and transfer of samples to the	ells.
 There is no time limit between sample microbiology or analytical Quality 	Control laboratories.	or and the state of the state o	
c. There is no time limit between sample microbiology or analytical Quality 4. There is a lack of Quality oversight in the	review of procedures fo	llowed in the quality control testing o	of
There is no time limit between sample microbiology or analytical Quality There is a lack of Quality oversight in the (b) (4) drug substance and drug productions in the method SOPs in	review of procedures fo oduct. Specifically, the QC laboratory are in	llowed in the quality control testing o	of
There is no time limit between same microbiology or analytical Quality 4. There is a lack of Quality oversight in the drug substance and drug pro a. Instructions in the method SOPs in adequate testing of in-process inter-	review of procedures for oduct. Specifically, the QC laboratory are in mediates for	sufficient and/or inaccurate to ensure drug substance. For example,	of
c. There is no time limit between sample microbiology or analytical Quality 4. There is a lack of Quality oversight in the drug substance and drug productions in the method SOPs in adequate testing of in-process intermited it. SOP QC/GAM/035 "Bioburg."	review of procedures for oduct. Specifically, the QC laboratory are in mediates for den Testing" addresses the SOR does not	sufficient and/or inaccurate to ensure drug substance. For example, ne receipt of the samples in the include instructions on how to alique	of ot and
c. There is no time limit between sample microbiology or analytical Quality (4). 4. There is a lack of Quality oversight in the drug substance and drug process in the method SOPs in adequate testing of in-process intermicrobiology laboratory. However, the method sophism is sophism of the method sophism and the method sophism is sophism.	review of procedures for oduct. Specifically, the QC laboratory are in mediates for den Testing" addresses to wever the SOP does not to the test. The routing in	sufficient and/or inaccurate to ensure drug substance. For example, he receipt of the samples in the include instructions on how to aliquoractice of aliquoting unprocessed bul	of ot and
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c. There is no time limit between sample microbiology or analytical Quality (4). 4. There is a lack of Quality oversight in the drug substance and drug pro a. Instructions in the method SOPs in adequate testing of in-process interior i. SOP QC/GAM/035 "Bioburg microbiology laboratory. Ho or prepare the samples prior samples into a bottle and set	review of procedures for oduct. Specifically, the QC laboratory are in mediates for den Testing" addresses to the test. The routine putling the cells prior to test.	sufficient and/or inaccurate to ensure drug substance. For example, he receipt of the samples in the include instructions on how to aliquoractice of aliquoting unprocessed but ting is not captured in the SOP. Report" does not allow for document	of ot and k
c. There is no time limit between sample microbiology or analytical Quality of the limit between samples as lack of Quality oversight in the drug substance and drug properties. a. Instructions in the method SOPs in adequate testing of in-process intermation. SOP QC/GAM/035 "Bioburd microbiology laboratory. Ho or prepare the samples prior samples into a bottle and setting of the volumes used in the samples into the polymes used in the polymes used in the samples into the polymes used in the polym	review of procedures for oduct. Specifically, the QC laboratory are in mediates for den Testing" addresses to tweether the SOP does not to the test. The routine putling the cells prior to test acterial Endotoxin Test publications during sample	sufficient and/or inaccurate to ensure drug substance. For example, he receipt of the samples in the include instructions on how to aliquoractice of aliquoting unprocessed bullting is not captured in the SOP.	of ot and k
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c. There is no time limit between samp microbiology or analytical Quality of the limit between samples as lack of Quality oversight in the drug substance and drug properties. a. Instructions in the method SOPs in adequate testing of in-process intersion. SOP QC/GAM/035 "Bioburd microbiology laboratory. Ho or prepare the samples prior samples into a bottle and setting in SOP QC/Q8/FOR/072/02 "For of the volumes used in the listed in prepare the actions to be the consure adequate processing of the listed in Section 4.7.1 of BMR/F/7 bag is out of limit for plan." However, the plan that is diaddition, the number of times the structure acceptance limit is not indicate.	review of procedures for oduct. Specifically, the QC laboratory are in mediates for den Testing" addresses to twever the SOP does not to the test. The routine puting the cells prior to test acterial Endotoxin Test publications during sample ons cannot be verified. The product of the prior to test acterial endotoxin Test publications during sample ons cannot be verified. The product of the prior to test acterial endotoxin Test publications during sample ons cannot be verified. The product of the prior to test acterial endotoxin Test publications during sample on the product of the prior to test publication of the prior to test acterial endotoxin Test publication of the prior to test	sufficient and/or inaccurate to ensure drug substance. For example, he receipt of the samples in the include instructions on how to aliquoractice of aliquoting unprocessed but sting is not captured in the SOP. Report" does not allow for document e preparation. Therefore the calculation in in-process testing are insufficient that in-process test results for individual to the follow the below mentione and include allowed to be executed before determined.	of and k tation ons onent i vidua d In
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c. There is no time limit between samp microbiology or analytical Quality (1) 4. There is a lack of Quality oversight in the drug substance and drug program as a lack of Quality oversight in the drug substance and drug program as a lack of Quality oversight in the drug substance and drug program as a lack of Quality oversight in the acceptance and drug program as a lack of Quality oversight in the substance and drug program as a lack of in-process intermited in SOP QC/GAM/035 "Bioburg microbiology laboratory. Ho or prepare the samples prior samples into a bottle and setting in SOP QC/Q8/FOR/072/02 "For of the volumes used in (b) step dilution of the volumes used in (b) step dilution in the processing of the listed in Section 4.7.1 of BMR/F/7 bag is out of limit for plan." However, the plan that is diaddition, the number of times the step acceptance limit is not indicate.	Control laboratories. Freview of procedures for oduct. Specifically, the QC laboratory are in mediates for den Testing" addresses to the test. The routine putling the cells prior to test acterial Endotoxin Test publications during sample ons cannot be verified. See the based on results from drug productions during sample ons cannot be verified. See the based on results from drug productions during productions during productions during productions described in Table 14, do recommended action is a sed. Standard Testing Proceduring Procedure for drug productions during procedure for drug procedure. EMPLOYEE(S) NAME Reyes Candau-Chair BND. Linder Employee Empl	sufficient and/or inaccurate to ensure drug substance. For example, he receipt of the samples in the include instructions on how to aliquoractice of aliquoting unprocessed butting is not captured in the SOP. Report" does not allow for document preparation. Therefore the calculation in in-process testing are insufficient that in-process test results for individual their follow the below mentioned allowed to be executed before determined for drug substance release and Quoroduct release do not provide assura	of and k tation ons o nent i i vidua d In ng to C/Q8

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DEPARTMENT OF HEAL FOOD AND DRU	TH AND HUMAN SERVI G ADMINISTRATION	ICES	
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DISTRICT OFFICE ADDRESS AND PHONE NUMBER CDER Division of Inspectional Assessment; Attn. Mahesh Ramanadham, Director E-MAIL: Mahesh Ramanadham@fda.hhs.gov; PHONE +1-301-796-3272 Mail address: 10903 New Hampshire Ave. White Oak Building 51, Room 4328 Silver Spring, MD-20993 Industry Information: www.fda.gov/oc/industry		March 27 to April 7, 2017	
		FEI NUMBER 3003981475	
		3003981473	
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TO: Arun Chandavarkar, Ph.D., CEO & Joint Managing Director,	Corporate		
RM NAME STREET ADDRESS		2 4 24 24 44	
Biocon Limited	Plot No 2-4, Phase		
CITY, STATE AND ZIP CODE	TYPE OF ESTABLISHME		
Bangalore, Karnataka 560099, India	Drug Substance an	d Drug Product Manufacturi	ng Facility
integration and when manual data intensure consistency. ii. The protocols for SEC, nrCE-SDS, repeaks would be identified and docur iii. Reagents, consumables, and equipm QPCR Master Mix for the host cell is systems. The methods were validate clear how the substitutes for the item iv. The protocol for residual host cell DDNA yield for testing. Stell "equilibrated to room temperature of temperature or in a boiling water bath water is equilibrated at room temperature. 5. The OOS procedure [BF/QA/SOP/029 "Out of Sport Products (Analytical Tests)]" does not ensurand appropriate investigation and tracking of OO Specifically,	CE-SDS, and IEC mented or investigation that may be sure DNA assay, the SI of for use with spens specified in the DNA does not includes an includes an increation of the control of the co	do not specify whether ated. abstituted with "equivalence column, and the SEC column, and the SEC coffic reagents and system methods are determined to the entire of the struction to add water to more" and then to "incure ensure an acceptable Direct incubation must be 70 degrees, the subsequed the for Non-Conforming formance to batch release.	new or atypical ent" include the c and IEC HPLC ms and it is not it to be equivalent. msure appropriate hat has been abate at room NA yield, if the performed in the ent incubation can ag Materials and se specifications
 Section 6.1.a of the procedure indicates the products) performed on the same day may 	be reported under	a single OOS.	36
b. Section 6.9.B.b of the procedure states that by (b) (4) analysts in triplicate; however, And investigation includes only two samples per be retested in duplicate or triplicate.	nexure 8 used for our analyst. Therefore	ore, it is not clear wheth	er samples are to
SEE REVERSE OF THIS PAGE KINDER PAGE EMPLOYEE(S) SIGNATURE Conchi Rgni no Soroh Plangust Of Of O	PhD; Lindsey Brown, Rristen Nickens, PhD;	DTITLE (Print or Type) , PhD; Lakshmi Narasimhan, PhD; Sarah Kennett, PhD; Maria Teresa Gutierrez-Lugo PhD: Michael Shanks, MS	04/07/2017

INSPECTIONAL OBSERVATIONS

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CITY, STATE AND ZIP CODE Bangalore, Karnataka, 560099, India	AND ZIP CODE TYPE OF ESTABLISHMENT INSPECTED		
c. Different and incomplete instructions for reporting retest results are included in Section B.f and Annexure-8.			
6. (b) (4) and (b) (4)	solutions used	for drug substance form	ulation do not
have adequate microbial control. Specifically, a. The solution is not tested for bioburden nor filtered prior to addition to the unformulated drug substance. In addition, the house bioburden specification.			
b. The solution is not tested for bioburden nor filtered prior to addition to the unformulated drug substance. The raw material vendor specification is NMT (b) (4) CFU/g and in-house specification is total yeast and mold NMT (b) (4) CFU/g and total aerobic count NMT (b) (4) CFU/g; in-house specification bioburden levels would result in drug substance bulk bioburden of nL, which is (b) (4) fold higher than the proposed bioburden limit at this step.			
7. Bioburden sampling during manufacturing of b (4) drug product is inadequate. Specifically, sampling of the used for drug product was performed immediately after the (b) (4) step.			
 Deviations are not initiated and/or closed in time, per the deviation SOP, and do not include appropriate justifications for delays in closure. Specifically, 			
a. GB/QA/SQP/025 states that deviations should be closed within (b) (4) with a window period of In case of a delay in closure, the initiator is to enter the justification for the delay, and the delay is signed off for acceptance by QA. The following deviations were not closed or did not have delay approval within days: BL/DRU-15/007 due date: 15/06/2015 delay approval date: 03/08/2015 BL/DRU-15/011 due date: 16/7/2015 delay approval date: 08/03/2017 BL/DRU-15/037 due date: 09/10/2015 delay approval date: 04/27/2016 BL/DRU-15/053 due date: 30/11/2015 delay approval date: 05/08/2016			
SEE REVERSE OF THIS PAGE KINGLAND And DECK KINGLAND	PhD; Lindsey Brown, Kristen Nickens, PhD:	D TITLE (Print or Type) 1, PhD; Lakshmi Narasimhan, PhD; Sarah Kennett, PhD; Maria Teresa Gutierrez-Lugo PhD; Michael Shanks, MS	04/07/2017
FORM FDA 483 (9/08) PREVIOUS EDITION OBSOLETE	INSPECTIONAL OBS		Page 5 of 6:

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Biocon Limited	Plot No 2-4, Phase IV, Bommasandra-Jigani Road TYPE OF ESTABLISHMENT INSPECTED			
CITY, STATE AND ZIP CODE				
Bangalore, Kamataka 560099, India	Drug Substance and Drug Product Manufacturing Facility			
BL/DRU-15/062 due date: 19/11/2015	delay approval date: 09/12/2015			
BL/DRU-15/063 due date: 17/11/2015	delay approval date: 05/08/2016.			
MM/DR-16/074 due date: 27/10/2016	delay approval date: 23/11/2016			
MM/DR-16/160 due date: 26/12/2016	delay approval date: 16/01/2017			
MM/DR-16/163 due date: 29/12/2016	delay approval date: 16/01/2017			
tion is all the graphics	and the second of the second o			
b. GB/QA/SOP/025 states that deviations shou	ald be reported within (b) (4) from the time of the			
deviation. The SOP does not contain a diffe	rentiation between reporting and initiation of deviations.			
The following deviations were not initiated within (b) (4) of the "date of deviation" stated in				
the deviation report:	6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
BL/DRU-15/062 date of deviation:	02/10/2015 date of initiation: 06/10/2015			
MM/DR-16/029 date of deviation: 09/07/2016 date of initiation: 10/08/2016				
MM/DR-16/029 date of deviation: 09/07/2016 date of initiation: 27/09/2016 MM/DR-16/097 date of deviation: 20/07/2016 date of initiation: 27/09/2016				
MM/DD 16/160 date of deviation: 2	5/10/2016 date of initiation: 15/11/2016			
MM/DR-16/199 date of deviation: 02/01/2017 date of initiation: 10/01/2017				
MM/DR-16/202 date of deviation: 18/11/2016 date of initiation: 12/01/2017				
a. In the event of a delay a justification and ta	rget date are to be entered into the deviation report, the			
c. In the event of a delay, a justification and target date are to be entered into the deviation report, the delay impact is to be assessed, and QA is to review and accept, if approvable. Many entries do not				
provide a suitable justification for the delay (more than 13 of the deviations reviewed during the				
inspection). A few examples for the delay include,				
"prioritization of other activities"	incitac,			
"delay in CAPA initiation"	#: #: #: #: #: #: #: #: #: #: #: #: #: #			
	report ¹⁷			
"delay in preparation of investigation report"				
"discussion between cross-functional teams"				
52.7				
	e e			
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Table outrest closures of	MPLOYEE(S) NAME AND TITLE (Print or Type) DATE ISSUED			
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REVERSE Som Kernese	PhD: Lindsey Brown, PhD; Sarah Kennett, PhD;			
OF THIS PAGE Kick Aluking N. O. D. D.	Kristen Nickens, PhD; Maria Teresa Gutierrez-Lugo PhD; Merry Christie, PhD; Michael Shanks, MS			
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