		NT OF HEALTH AND HUMA OD AND DRUG ADMINISTRATIO		
Rockville, MD 20	Drive, Room 2032	s@fda.hhs.gov	08/11/2022-08/12/2022 00 08/26/2022 PERMANUER 3003981475	8/15-19/2022;
Mr. Ganesh D. Ro	u томноминиот жико eddy, Global Head – Biologic:	Manufacturing	3003361473	
Biocon Biologics Li		STREET ADDRESS:	a-Jigani Link Road	
CITY, STATE, 29° CODE, COUN	ikri —	THE ESTABLISHMEN	T NUMBER	
Bengaluru, Karnati	aka, India 560099	Drug Substan	ce & Drug Product Manufactur	er
represent a final Agency implement, corrective act	rvations made by the FDA representation determination regarding your compliant ion in response to an observation, you to FDA at the address above. If you ha	ce. If you have an objection may discuss the objection of	regarding an observation, or have imp or action with the FDA representative(s	lemented, or plan to) during the inspection
DURING AN INSPECT	ION OF YOUR FIRM WE OBSERVE	ED;		
OBSERVATION	N 1			
Procedures desig are not establishe	ned to prevent microbiolog d and followed.	gical contamination	of drug products purporti	ing to be sterile
Specifically,				
activities over (b) (4) and activity was r (b) (4) Inject B. During both s	duction operators were obe r drug product filled (b) (4) I vials were further process	and empty via sed to be included nj. (b) (4) [U (Batch drug produc for both filling line	als (pre-drug product), respin the batch, and were not (b) (4) and (b) (4) and (c) (d) and (d) (d) and (d) (d) (d) (d) (d) (d) (d) (d) (d) (d	discarded. This lines.
1. During the (b) (4) be stopper (b)	c(b) Vial Filling Line setu	p on Tuesday, Au ce, some operation		e stopper removal over
operators interchang setup inte	lay, August 16, 2022, responser observed handling or geably when conducting Greentions.	ectively, primary (ommon items (e.g. rade A and Grade	(b) (4) bottle, scissors, B operations during open	ed) Production pens)
3. The secon RABS (b) ((b) (4)	dary Production operators (b) (4) in wipes after (b) (4) cleaning s	, responsible for sa terventions, prior t stroke.	unitizing the (b) (4) to closing, with (b) (4)	Filling Line did not (b) (4) the
SEE REVERSE OF THIS PAGE FORM FOR 483 (09/08)	And George Ryan Proposes series associates	Michael R. Sh Arsen Karape Ralph M. Ben	anks, Senior Biologist tyan, INV-Dedicated Drug Cadre instein, Biologist Pharmaceutical Quality Assessor	DATE ISSUED 08/26/2022 Page 1 OF 18

		OF HEALTH AND HUMAN		
12420 Parklawn I Rockville, MD 200 E-mail: ORAPHAR	Orive, Room 2032	Pfda.hhs.gov	08/11/2022-08/12/2022 0 08/26/2022 FEI HARRISH 3003981475	8/15-19/2022;
Mr Ganesh D Re	ddy, Global Head – Biologics M	lanufacturing	3003901473	
PIRMINAE		STREET ADDRESS	s Manual Clade Manual	
Biocon Biologics Lir city, state, an cook, count	RD .	TYPE DETABLISHMEN		
Bengaluru, Karnata	ka, India 560099	Drug Substan	ce & Drug Product Manufactur	er
	Filling activities a ay, August 15, 2022, respect on by their sides, below their	ively, Productio	ng activities on Friday, A n operators were observed	ugust 12, 2022, I with their
operations grade A &	Filling activities of oggles having gaps between a. Goggles used by operators: B areas during aseptic operators ource of particles generated	goggle strap and to protect again ations having un	st exposed skin while wor protected gaps are not an	ne aseptic rking in the effective barrier
smoke stu Pattern St Formulation	chavior deficiencies in items dies, BF/QA/STY/R/130, ve ady of the Laminar Air Flow on Area (b) (4) and B1/QA/Al Visualization Studies for the 4)	er. 5.0, effective Stations in Vial FVR/002, ver. 3	date 04/15/2021, Report f Filling Line (b) (4) .0, effective date 08/02/20	or Air Flow in Biocon 021, Report for
	and personnel monitoring ons are deficient. Specificall		sing areas following critic	al Grade A
the RABS these RAF	for the W Vial Filling Line, (b) (4) F S(b) (4) was observed during Vial Filling Line, with (b) (4)	EM DAB plate: following the EM		om both sides of use of ugust 16, 2022,
non-sterile indirect pr	e routine environmental mon equipment surfaces above s oduct contact) on the (b) Via ogical surface samples were a body.	terile filling and I Filling Line w	stoppering components (e ere sampled. For example	direct and
During the conveyor i monitoring	e routine aseptic filling proce is located on the (4) Vial Fill g.	ss, the designate ing Line is not s	d Grade A (ISO 5) area w ubject to Non-Viable-Part	here the (b) (4) iculate (NVP)
SEE REVERSE OF THIS PAGE	ak ar W	Michael R. Sh Arsen Karapet Ralph M. Berr	AND TITLE Pred or Type: anks, Senior Biologist yan, INV-Dedicated Drug Cadre stein, Biologist harmaceutical Quality Assessor	08/26/2022
FORM FOA 463 (06/08)	FREYIOUS EDITION OBSOLETE	HOWE WAS ENGINEED. PO	RESERVED FOR EIGHTHAN	Fage 2 OF 18

DEPARTI	MENT OF HEALTH AND HUM/ FOOD AND DRUG ADMINISTRATI	
12420 Parklawn Drive, Room 2032 Rockville, MD 20857		08/11/2022-08/12/2022 08/15-19/2022; 08/26/2022
E-mail: ORAPHARMInternational483respor	nses@fda.hhs.gov	3003981475
Mr. Ganesh D. Reddy, Global Head – Biolog	gics Manufacturing	
FRIM HAME	STREET ADDRESS.	
Biocon Biologics Limited	Bommasand	Ira-Jigani Link Road
CITY, STATE, 39 CODE, COUNTRY	TYPE ESTABLISHME	MT MAPPICTED
Bengaluru, Karnataka, India 560099	Drug Substa	nce & Drug Product Manufacturer

- D. BPDR 2728121, initiated on April 5, 2022, that conducted aseptic behavior corrective actions from its assessment, and the CAPAs from the Grade A environmental monitoring excursions of Media Fills noted below, were not adequately assessed by the Quality Assurance system from a global Biocon Biologic aseptic behavior perspective to effectively curtailed this aseptic behavior citation.
 - Report BF₍₄₎ /APS-LF/R/016, ver. 1.0, effective date 02/24/2022, Report for Aseptic Process Simulation Batch No. (MFG Date: December 2021) for (b) (4) Process on Liquid Fill Vial of (b) (4) Line Finish Facility.
 - Report BF(b) APS-CT/R/015, ver. 1.0, effective date 02/28/2022, Report for Aseptic Process Simulation Batch No. (MFG Date: January 2022) on (b) (4) Line of (b) Line Finish Facility.
 - Report BF (b) (4) APS-LF/R/031, ver. 1.0, effective date 08/16/2022, Interim Report for Aseptic Process Simulation Batch No. (b) (4) Line Finish Facility.
 MFG Date: July 2022) on Liquid Fill Vial Line of (4) Line Finish Facility.

OBSERVATION 2

Your firm's facilities are not adequate to ensure the prevention of contamination of equipment or product by environmental conditions that could reasonably be expected to have an adverse effect on product quality.

Specifically,

- A. You have not taken effective corrective actions to adequately address the persistent trend of fungal contamination in your Site Drug Substance Block manufacturing facility. From April 27, 2022 to June 21, 2022, your environmental monitoring program repeatedly recovered fungi from (b)(4)2S areas as reported in the (147) OOAC (Out of Action Level) excursions. Since then, additional (16) OOAC excursions with fungal recoveries have been reported and are still under investigation. You have not conducted a thorough assessment of the scope of the fungal contamination in the facility and the potential routes by which fungi had entered your classified manufacturing areas.
- B. Your firm's environmental monitoring (EM) program does not include appropriate measures to monitor, trend and control fungal contamination in your DS and DP manufacturing facilities. Specifically,
 - Appropriate OOAL (Out of Alert Level) and OOAC limits have not been established for fungal contamination in the Grade C and Grade D areas. Only a cumulative account of bacterial and

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SEE PEVERSE OF THIS PAGE	an 22	Michael R. Shanks, Senior Biologist Arsen Karapetyan, INV-Dedicated Drug Cadre Ralph M. Bernstein, Biologist Zhong Li, Sr. Pharmaceutical Quality Assessor	08/26/2022

W 20 C 10 C	ENT OF HEALTH AND HUM. OOD AND DRUG ADMINISTRAT	A CONTRACTOR OF THE CONTRACTOR
12420 Parklawn Drive, Room 2032 Rockville, MD 20857 E-mail: ORAPHARMInternational483respons	ses@fda.hhs.gov	08/11/2022-08/12/2022 08/15-19/2022; 08/26/2022 FEMANDER 3003981475
Mr. Ganesh D. Reddy, Global Head – Biologi	cs Manufacturing	
Biocon Biologics Limited	Bommasano	Ira-Jigani Link Road
cry, stue, ar cook, country Bengaluru, Karnataka, India 560099	TYPE SETWIL SEMESTER SEPECTED Drug Substance & Drug Product Manufacturer	

fungal colonies is evaluated against the OOAL/OOAC limits for the classified areas.

Consequently, your EM program lacks assurance of a timely and sensitive detection of adverse trend of fungal contamination in your facilities.

- There is no trending of fungal contamination in the facilities. In addition to "A" above, the
 following fungal contaminations were reported in other Site (b) DS and DP manufacturing
 facilities:
 - a. There are more than (20) OOAC excursions with fungal recoveries reported for (4)
 DS manufacturing facilities from May 14, 2022 to June 27, 2022.
 - OOAC# BF/OOAC/21/253 was initiated for a fungal contamination (b) CFU/plate) found on a settling plate sample in a Grade B area.
 - OOAC# BF/OOAC/21/255 was initiated for a fungal contamination (b) (CFUs) found on a personnel (b) (4) monitoring (finger dab) sample.
 - d. OOAC# BF/OOAC/21/362 was initiated for a fungal contamination (b) CFUs) found on a surface monitoring of a vial-filling machine (b) (4) sample.
 - e. OOS# MM-OOS-M-FP-21-003 was imitated for a fungal contamination (b) (CFU/10 mL) found in a bulk DS batch # (b) (4)
- C. Your firm lacks an established cleaning and sanitization program to prevent the introduction of microbial contamination into controlled manufacturing environments in your Site (b) lrug substance and drug product manufacturing facilities. Specifically,
 - Your cleaning and sanitization procedures for the classified DS and DP manufacturing areas including aseptic cores, S2/BT/MC/SOP/0024, S2/BF/FM/SOP/0039, and S2/BF/FM/SOP/0194 do not require documentation and verification that the surfaces are wetted and remain wetted for the contact time validated in the disinfectant efficacy studies (DES).
 - Your disinfectant efficacy study, BF/QCQS/STY/R/313 (effective 15-Nov-2017), does not
 adequately support the sanitization procedures for the antimicrobial and sporicidal effectiveness
 of the disinfectants and sporicidal agents for all representative manufacturing surfaces in the
 DS manufacturing facility. For example, glass (windows) and materials used for cart-wheel
 tread/core were not included in the study.
 - Your disinfectant efficacy study, PL/MB/VR/21/001-01 (approved 30-May-2022), does not do
 not adequately support the sanitization procedures for the antimicrobial and sporicidal

EMPLOYEESS SIGNATURE EMPLOYEE(E) NAME AND TITLE (PAGE or Type) DATE ISSUED ax Michael R. Shanks, Senior Biologist REVERSE Arsen Karapetyan, INV-Dedicated Drug Cadre OF THIS 08/26/2022 Ralph M. Bernstein, Biologist PAGE Zhong Li, Sr. Pharmaceutical Quality Assessor INSPECTIONAL OBSERVATIONS Page 4 OF 18 FORM FDA 483 (99/00) PREVIOUS EDITION OBSOLETE

				OOD AND DRUG A	AND HUMAN SE DMINISTRATION	RVICES	
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1000		esh D. Reddy, Glob		cs Manufact	uring		
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CHY. 6	TATIL 29	rcook couvery J, Karnataka, India S	sennee	TYPE	ESTABLISHMENT INSP	PLICATE AND	or.
4.	ef su (b)	fectiveness of the rfaces in the (b) (4) ne (b) (4) programment of classific	disinfectants at DP, and and cart-whe m with (b) (4) d manufacturing	nd sporicida (b) (4) DS el tread/cor use areas after	al agents for 3 manufactu e materials ed to as a re media-fill t	r all representative man uring facilities. For exa were not included in the mediation measure for failures, EM excursions c.) has not been validat sinfect the cleaning roo	ufacturing mple, e study. bioburden , and major
D 10	(b) (⁴ Fill-Finish man	ufacturing facili	ties [refer t	o Report no	. BF/QC/STY/R/289].	
fc	llov	ving concerns we	re noted during	the current	inspection:	or in an adequate state	of repair. The
1.	. 17	ne following were	e observed in the	(b) DP fill	l-finish facil	lity:	
	a.	The Vial Wash in an adequate caulking above	state to facilitate	appropriat	e cleaning i	environment (Grade D), in that the wall-ceiling in we smooth cleanable su	nterface
	b,	There is no cau promote microl	lk sealant on the bial egress into t	backside o	of an insulat area (Grade	ed pipe in Room ^{(b) (4)} D).	that may
2.	T	ne following were	e observed in the	(b) DS (b)	(4) manufac	turing facility:	
		Chipped and cr		nich make t		It to clean, were observ	ed throughout
		hard to clean. Sobstructing the	nted with a surfa	cing paint-l carts in the	like materia e room had	I that was uneven, roug had their wheels painte	h, and appeared
	C.	In Room (b) (4) paint, wheels w				amage, including flakir them hard to clean.	ng and chipped
	d.		nterior of the wa		er rooms.	e non-sanitary sockets t	
	e.		ng it difficult to			apparatus was ru	siou, prued and
	SEE VEVEN OF TH PAGE	ISB VIS E	TV Ay	M Ar Ra	sen Karapetyar alph M. Bernste oong Li, Sr. Phar	s, Senior Biologist , INV-Dedicated Drug Cadre in, Biologist maceutical Quality Assessor	ожтеняния 08/26/2022
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DEPAR	TMENT OF HEALTH AND HUMA	710000000000000000000000000000000000000
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		08/26/2022
Rockville, MD 20857	DEL LI	FG IBABER
E-mail: ORAPHARMInternational483respo	nses@tda.hhs.gov	3003981475
NAME AND TITLE OF INDIVIDUAL TO MICHIEL REPORT MALIND		
Mr. Ganesh D. Reddy, Global Head – Biolo	gics Manufacturing	
Biocon Biologics Limited	Company 1 (4) Company 1	dra-Jigani Link Road
CITY STATE OF CODE COLUMN	Type corrections	
Bengaluru, Karnataka, India 560099		nce & Drug Product Manufacturer
components to meet specifications do not Specifically, A. Investigations initiated and performe results related to testing related to dr scientifically sound or comprehensive as a result of investigations are not a have been performed. For Example:	ed by your Quality Ur ug substance and dru re. Specifically, Corr Iways comprehensive	nit in response to out-of-specification test ag product manufactured are not always rective Action/Preventive Action (CAPA's) e to address root causes documented to
analysis of (b) (4) Bulk pr months LT, test result for IEX-H versus specification of NMT(b) on 11/20/2020. Per your firm, th of your firms suspected root caus being expired, "analyst not availated."	roduct Batch Number PLC was found to be 6. Initial test was pe the original sample was se as poor column per able" and "waiting fo	During IEX-HPLC Chromatography (b) (4) for stability test at 24 c OOS for % basic, with result as (b) 6 crformed on 11/23/2020, with OOS initiated as not used for hypothesis testing in support rformance due to sample solution stability or approval from the firm's partner" for this in 01/25/2021, more than 2 months after the

OOS, using new sample preparations, with within specification results used to justify repeat

08/04/2020), MM-OOS/A/I/20/007 (dated 08/10/2020), and MM-OOS/A/I/20/008 (dated 08/19/2020) were initiated for (b) (4)

OS Batch Number (b) (4)

OOS for parcount test by (b) (4)

in-process), prior to (b) (4)

filtration of the bulk solution. Your

investigation determined that all OOS results were valid, with CAPA explained as this OOS was prior to (b) (4) m filtration activities. This DS batch was further used for manufacture for drug product, which was distributed in the domestic market. There is no justification for relying on additional manufacturing controls as a CAPA, without review of environmental monitoring

Starting from 08/03/2020 to 12/13/2021, approximately eight different OOS investigations were initiated for (b) (4) [II/ml (b) (4) development batches,

EMPLOYEE IS NAME AND TITLE (PINK IN THREE)

Ralph M. Bernstein, Biologist

INSPECTIONAL OBSERVATIONS

Michael R. Shanks, Senior Biologist.

Arsen Karapetvan, INV-Dedicated Drug Cadre

Zhong Li, Sr. Pharmaceutical Quality Assessor

OOS for particle

DATE ISSUED

08/26/2022

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filtration of the bulk solution. Your

2. OOS Numbers MM-OOS/A/I/20/004 (dated 07/27/2020), MM-OOS/A/I/20/006 (dated

in-process), prior to (b) (4)

procedures and controls which may have led to the in process OOS results.

analysis, after which the initial OOS result was invalidated.

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FORM FDA 483 (09/08)

target (b) (4) mg/mL). Based on the laboratory investigation, no assignable/probable root		Di	PARTMENT OF HEALTH AND HU FOOD AND DRUG ADMINISTR		
Mr. Ganesh D. Reddy, Global Head — Biologics Manufacturing Mr. Ganesh D. Reddy, Global Head — Biologics Manufacturing Mr. Ganesh D. Reddy Product Manufacturing	12420 F Rockvill	Parklawn Drive, Room 2032 e, MD 20857		08/11/2022-08/12/2022 08 08/26/2022	3/15-19/2022;
Mr. Ganesh D. Reddy, Global Head — Biologics Manufacturing Street Roberts Street Roberts			esponses@fda.hhs.gov		
Biocon Biologics Limited Bengaluru, Karnatzaka, India 560099 Where out of specification results were observed during analysis of samples of stability for in (b) (4) where out of specification results were observed during analysis of samples of stability for in (b) (4) where out of specification results were observed during analysis of samples of stability for itest. Multiple CAPA's were initiated and executed over a approximate 1.5 years, including revision of batch manufacturing records to manually reject stops, revision of dispensing of raw materials, (b) (4) verification, impact of (b) (4) concentration on (b) (4) as of 07/04/2022, however, your firm has not identified a long term CAPA effectiveness che strategy for ongoing testing for (b) (4) From 09/23/2021 to 03/31/2022, at least three out of specifications results have been observe for (b) (4) (b) (4) OOS/A/FP/21/060, dated 09/23/2021, was initiated for process validation batches and (b) (4) with OOS results of (b) (4) mg/ml (b) (b) mg/ml.). Based on the laboratory investigation, no assignable/probable root cause was identified for the reported OOS for (b) (4) mg/ml (b) (4) mg/ml (b) (4) mg/ml (b) (4) with both results invalidated. As a result, the specification was widened to (b) (4) mg/ml to NMT (b) (4) mg/ml (b) (4) content test specification limit. As a result, the specification of (b) (4) mg/ml (b	Mr. Gar				
where out of specification results were observed during analysis of samples of stability for in b) (4) lest. Multiple CAPA's were initiated and executed over a approximate 1.5 years, including revision of batch manufacturing records to manually reject (b) (4) when (b) (4) lest. Multiple CAPA's were initiated and executed over a approximate 1.5 years, including revision of batch manufacturing records to manually reject (b) (4) lest oncentration on (b) (4) lest oncentration of lest oncentration lest oncentration lest oncentration lest oncentration lest oncentration less oncent	Biocon B		Bommasa	ndra-Jigani Link Road	
approximate 1.5 years, including revision of batch manufacturing records to manually reject (b) (4) when (b) (4) stops, revision of dispensing of raw materials, (b) (4) toncentration on (b) (4) and impact of (b) (4) concentration on (b) (4) and impact of (b) (4) concentration on (b) (4) and impact of (b) (4) concentration on (b) (4) and impact of (b) (4) concentration on (c) (4) (c) (d) (esting for this product. 4. From (b) (4) [U/mL, (b) (4)] [U/mL, (b) (4				Control of the contro	er
Term stability test, with OOS result as (b) (4) mg/ml versus a specification of (b) (4) to Nl (b) (4) mg/ml (b) - (b) 6 of target (b) (4) mg/mL). Root cause was determined to be (b) (4) (b) (4) content test specification limit. As a result, the specification was widened to mg/ml to NMT (b) (4) mg/ml (b) (4) 6 to (b) (4) 6 of target (b) (4) mg/mL). • Although the specification was widened, your firm encountered an additional OOS/A/FP/21/099, dated 03/31/2022, was initiated for batch (b) (4) 6 Month Accelerated sample, with OOS result as (b) (4) mg/ml versus a specification of (b) (4) mg/ml NMT (b) (4) mg/ml (b) (4) 6 to (b) (4) 6 of target (b) (4) mg/mL), with root cause determined "analytical variability". Your firm's corrective actions with respect to the OOS	(b) v c a s: 4. F	pproximate 1.5 years, include (4) when (b) (4) erification, impact of oncentration on s of 07/04/2022, however, years trategy for ongoing testing for (b) (4) conto (b) (4) [U/mL, (b) (4)] OOS/A/FP/21/060, dated (b) (4) and (b) (4) revised specification of vetarget (b) (4) mg/mL). Base cause was identified for the number for (b) (4) widened to (b) (4) mg/ml to result, your firm performed determine actual concentration (b) (c) (d) mg/ml to result, your firm performed determine actual concentration (d) (d) mg/ml to result, your firm performed determine actual concentration (d) (d) mg/ml to result, your firm performed determine actual concentration (d) (d) mg/ml to result, your firm performed determine actual concentration (d) (d) mg/ml to result, your firm performed determine actual concentration (d) (d) mg/ml to result, your firm performed determine actual concentration (d) (d) mg/ml to result, your firm performed determine actual concentration (d) (d) mg/ml to result, your firm performed determine actual concentration (d)	test. Multiple CA ling revision of batch n stops, revision of hold time in (b) (4) CAPA PR ID 9734 our firm has not identified (b) (4) 22, at least three out of eat on the laboratory in the reported OOS for (b) with both results invalided an assessment of the ation of (b) (4) (b) (4) (c) (a) (b) (4) (d) (d) (e) (d) (e) (d) (e) (e) (d) (e) (for (d) (d) (for (d) (e) (d) (e) (e) (e) (e) (e) (e) (e) (e) (e) (e	APA's were initiated and executanus and impact of the composition of t	utted over an ually reject (b) (4) of (b) (4) leted and closed iveness check is product. een observed ection USP ches (b) (b) (b) of bable root (d) (4) lot fication was mg/mL). As a erial lot to ml theoretical
SEE REVERSE CIK 25 AV Michael R. Shanks, Senior Biologist	SE	Term stability test, with C (b) (4) mg/ml (b) (4) (b) (6) (6) (6) (6) (7) (6) (7) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7	oOS result as (b) (4) mg/mL). ification limit. As a re nl (b) (4) % to (b) (4) % o on was widened, your fi (03/31/2022, was initia OOS result as (b) (4) mg to (b) (4) % of target (b) (our firm's corrective at ar to be adequate and michael 8	/ml versus a specification of Root cause was determined sult, the specification was wind f target (b) (4) mg/mL). rm encountered an additional ted for batch (b) (4) 6 /ml versus a specification of (4) mg/mL), with root cause of actions with respect to the OC justified, in that, not only does	Month (b) (4) to NMT to be (b) (4) dened to (b) (4) Month (b) (4) mg/ml to letermined to be 0S s your firm
OF THIS PMGE Ralph M. Bernstein, Biologist Zhong Li, Sr. Pharmaceutical Quality Assessor	OF TO	HIS SE	Ralph M. Zhong Li,	Bernstein, Biologist Sr. Pharmaceutical Quality Assessor	08/26/2022 Page 7 OF 18

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Rockville, MD 2	Drive, Room 2032	da.hhs.gov	08/11/2022-08/12/2022 OF 08/26/2022 FETHINGER	3/15-19/2022;
MAME AND TITLE OF BICEVIC	AND TO WHOM REPORT ISSUED		3003981475	
Mr. Ganesh D. I	Reddy, Global Head – Biologics Ma	nufacturing		
Biocon Biologics	Limited		a-Jigani Link Road	
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	taka, India 560099		ce & Drug Product Manufacture	er
5. OOS Inv (b) (4) 10/21/20 BF/OOS dated 01 with acc than or e (b) (4) but actions i CAPA to	MD-21-005, dated 11/13/2021) /08/2022), and (b) (4) state eptance criteria of "the maximus equal to (b) (4) Between all Of of (b) (4) with yalues rangin	(4) (5) (6) (6) (7) (8) (8) (9) (9) (9) (1) (1) (1) (1) (1) (1) (2) (2) (3) (4) (4) (5) (4) (6) (4) (7) (7) (8) (9) (1) (1) (1) (1) (1) (2) (2) (3) (4) (4) (5) (4) (6) (7) (7) (8) (8) (9) (9) (9) (1) (1) (1) (1) (1) (2) (1) (2) (3) (4) (4) (5) (4) (6) (7) (8) (9) (9) (9) (9) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	mits (b) (4) (OOS BF/OOSMD-2; dated 10/25/2021), (b) (4) stability test (OOS BF/OOF/OOSMD-21-007, dated (b) (4) Your firm's proportion of the fresh (b) (4) tha fresh (b) (4) from (b) (4) for (4) for (4)	(OOS DSMD-21-006, D1/11/2022) shall be less I included 12 osed corrective , along with the ne only and if
6. During t investiga Number	nd investigation shall be performed an OOS investigation is not the inspection, we reviewed at least one initiated over the past apply MM-OOS/M/CS/20/003, MM-CS/21/010, MM-OOS/M/CS/2	t adequate. east nine (9) mi eroximate 2 yea -OOS/M/CS/2	icrobiology out of specifica urs, from 08/21/2020 to 06/ 0/020, MM-OOS/M/CS/21	ation /20/2022 (OOS I/001, MM-
OOS/M/	CS/21/013, No. MM-OOS/M/Comples after cleaning operations	S/21/005, No. for bioreactors	MM-OOS/M/CS/22/003) including, but not limited	regarding(b)(4) to(b)(4)
investiga	ations, OOS results were TNTC	/100mL for eq	cated in your (b) building. uipment components versu	in most is a specification
follo CAP man the () assig	arly as 02/2021, CAPA PR# 19. edure to incorporate more detail wed, however your firm continual A PR# 14276 was initiated to a afacturing cleaning verification CFU/100mL limit was incorred as (b) (4) CFU/100mL as the idate most OOS results. There	led testing produced to have this ssess the biobu limit of (a) Clect for cleaning cleaning verificis no justification	redure for sanitization praces root cause for OOS result reden limits, (b) CFU/100ml FU/100mL, as your firm diverification limit and show cation. CAPA # 14276 was for using this CAPA to	tices to be ts. In addition, L against iscovered that ald have been is used to invalidate most
SEE REVERSE OF THIS PAGE	WK BU M	Michael R. Sh Arsen Karape Ralph M. Ben Zhong Li, Sr. I	anks, Senior Biologist tyan, INV-Dedicated Drug Cadre instein, Biologist Pharmaceutical Quality Assessor	08/26/2022
FORM FDA 483 (09/08)	PREVIOUS EDITION OBSOLETE	INSPECTIONAL O	DBSERVATIONS	Page II OF 18

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Rockville, MD 2	n Drive, Room 2032		DATE(\$60 SHERECTION OB/11/2022-08/12/2022 OF OB/26/2022 PET MARKER 3003981475	3/15-19/2022;
	Reddy, Global Head – Biologics N	Janufacturing	3003361473	
FRIM HARRE		STREET ACCRESS	on the strong and the strong	
Biocon Biologics	UNTRY	TYPE CSTABLISHMON		
Bengaluru, Karna	ataka, India 560099	Drug Substan	ce & Drug Product Manufactur	er
whe TNT mice pane gluc acid Buri pick B. The (b) (4 contami substance Specific purifical intermed report(s formula (b) (4) we repeats). S. spiriti the biob lawn(s) into DS contami C. The (b) (4 bacteria prior to (aseptica)	nation in the drug substance (1) ce (DS) filtration. These DS locally, in 2021, Biocon building tion (b) (4) experienced eight (8 diate (b) (4) and (200018, 14747, 15068, 1518) ted intermediate DS prior to (b) ere found to be contaminated (4, S.maltophila (4 repeats), S.m. vorum, C.testosteroni, D.acido (1) (reported as 101 colonies), or containers and released to drug nation events for the DS or de (1) purification processing the processing of (4) filtration (1) (1) filted and released. The interpretation processing the processing of the processing the processing of the processing of the processing the processing of	investigations your equipment in the continuous investigations your equipment in the continuous investigations your equipment in the continuous in the continuous investigation of the continuous investigation in the continu	with most OOS results re ur firm identified the follo (4) building: Sphingomo rium Indologenes, Paenibo yerobacterium flavescens, yeus xylosus, Bacillus cere nans, Serratia marcescens (a) experienced 9 events of yendeled bulk prior to (b) I released for DP manufac drug substa mination excursions where tration (b) (4) as detailed in 30630, 37271), and one (yend (b) (4) DS fill (see report acteria (including C.indologhinomiyaensis, K.sedentar scens, and A.baumannii) a yeluding confluent lawn(s) yendeled bulk di count (TNTC). These DS nanufacture. The impact o yendeled bulk di yexperienced three (3) ex yen in the formulated bulk di yen 22-003 and 22-032). The	eported as wing onas acillus Delfia eus, Ralstonia bacterial um (b) (4) drug turing, nee (DS) in the deviation 1) post t 4602). The ogens (3 rius, at levels above or spreader lots were filled f these assessed. Vents of rug product tese lots were DP lots was not of the control of the contro
(b) (4)	load # A2/220776 and insta	lled on the line.	The assembling process w	as put on hold.
SEE REVERSE OF THIS PAGE	COM 350 M	Michael R. Sh Arsen Karape Ralph M. Berr Zhong Li, Sr. F	wo mite preces feet anks, Senior Biologist tyan, INV-Dedicated Drug Cadre instellin, Biologist Tharmacountries Quality Assessor	08/26/2022
FORM FDA 483 (99/98)	PREMOUS EDITION OBSOLETE	INSPECTIONAL C	/Backvations	Page 9 OF 18

and heart of the state of the s	ENT OF HEALTH AND HUMA OOD AND DRUG ADMINISTRATI	11.1
12420 Parklawn Drive, Room 2032 Rockville, MD 20857		08/11/2022-08/12/2022 08/15-19/2022; 08/26/2022
E-mail: ORAPHARMInternational483respons	es@fda.hhs.gov	3003981475
Mr. Ganesh D. Reddy, Global Head – Biologic	cs Manufacturing	
Biocon Biologics Limited	Bommasand	ra-Jigani Link Road
Bengaluru, Karnataka, India 560099	Drug Substa	nce & Drug Product Manufacturer

The (b) (4) stopper bowl was removed from the line, re-cleaned, re-sterilized through an (b) (4) load # A2/220779, and then re-assembled on the filling machine. The assembling and filling processes for were continued and completed. There was no action taken to the other filling machine parts that were sterilized through the same (b) (4) load # A2/220776. Deviation QMS # 81533 was initiated with pending investigation on root-cause-analysis, final product impact assessment, and corrective action and preventive action as of August 26, 2022.

OBSERVATION 4

Deviations from written test procedures and laboratory mechanisms are not recorded and justified. Specifically,

Your Quality Unit has not been effective in carrying out its duties of ensuring that drug products are manufactured in accordance with current good manufacturing practices (cGMP) to ensure safety, efficacy, purity, and overall quality of drug substances and drug products manufactured at your firm. This is demonstrated by a cascade of failures in your Quality Unit responsibilities related to controls on review of laboratory testing data, conducting investigations, and conducting activities per written procedures. The inspectional observations listed on this form document that your firm and/or consultants have not performed the adequate assessments/reviews to ensure the quality of drug substances and drug products manufactured and tested at your firm. For Example, but not limited to:

A: During our review of your Empower 3 chromatography software, interrupted sequences were observed, which generated "Data Incomplete" and "Bad Checksum" chromatographic data. Your firm's Quality Control Unit documented these interrupted injections as laboratory incidents, showing that no chromatogram had been generated, however, your Quality Unit was not aware that the software has the capability to verify the incomplete data and evaluate whether the sample did run, and if so, view the chromatogram. During our review of HPLC data, we reviewed electronic data for finished product, drug substance, in-process, stability, and raw material testing, where interrupted injections were requested to be verified (brought back) and reviewed: We observed several instances where repeat injections and additional testing may have been performed in contradiction to your firm's data integrity procedure. We observed interrupted sequences involving the following products and batch numbers, some of which were shipped to the US Market:

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FORM FDA 483 (09/08)

EMPLOYEESS SIGNATURE

Er Per

EMPLOYEESS HAVE AND TITLE (FIRST OF TIGHS)

Michael R. Shanks, Senior Biologist

Arsen Karapetyan, INV-Dedicated Drug Cadre

Ralph M. Bernstein, Biologist

Zhong Li, Sr. Pharmaceutical Quality Assessor

DATE ISSUED

08/26/2022

PREVIOUS FOUTION ORBOLETE INSPECTIONAL OBSERVATIONS

Page 10 OF 18

DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION DISTRICT ADDRESS AND PHONE HUMBER DATE(S) OF INSPECTION 12420 Parklawn Drive, Room 2032 08/11/2022-08/12/2022 08/15-19/2022; 08/26/2022 Rockville, MD 20857 E-mail: ORAPHARMInternational483responses@fda.hhs.gov 3003981475 NAME AND TITLE OF INDIVIOUS. TO WHICH REPORT ISSUED Mr. Ganesh D. Reddy, Global Head - Biologics Manufacturing FRM HASE Biocon Biologics Limited Bommasandra-Jigani Link Road

TYPE DETABLISHMENT INSPECTED

Drug Substance & Drug Product Manufacturer

Product Name	Batch Number	Type of test	Type of sample/ Injection name	Laboratory Incident Number.
(b) (4)		(b) (4) content	Finished Product/ Sample	QC/Q13/LI/22/0069
		Purity by SEC- HPLC	Analyst Qualification/ Laboratory standard	QC/Q17/LI/20/0016
		Purity by IEX- HPLC	Column performance/ Laboratory standard	QC/Q17/LI/20/0048
		Peptide Mapping by HPLC	Drug substance/ System Blank	QC/Q8/LI/22/0420
		Purity by SEC- HPLC	Stability/ (b) (4) vater	QC/Q8/L1/21/0817
		Purity by IEX - HPLC	Drug Product/ Sample	QC/Q8/L1/20/0521
		Purity by IEX HPLC	Stability/ Sample	QC/Q8/L1/20/0365
		(b) (4) Content by HPLC	In-process/ Sample	QC/Q8/L1/21/0546
		Purity by SEC - HPLC	In-process/ Sample	QC/Q8/L1/22/0374
		Purity by IEX HPLC	Stability/ IEX: Standard	QC/Q8/L1/20/0455
		(b) (4) content by HPLC	Drug substance/ Sample	QC/Q8/L1/20/0525
		Peptide mapping By HPLC	Drug substance/ Sample	QC/Q8/LI/21/0398

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CITY, STATE, ZIP GODE, COUNTRY

Bengaluru, Karnataka, India 560099

emoresponentes

EMPLOYEE(II) NAME AND TITLE (PROFOR TYPIN)

Michael R. Shanks, Senior Biologist Arsen Karapetyan, INV-Dedicated Drug Cadre

Ralph M. Bernstein, Biologist Zhong Li, Sr. Pharmaceutical Quality Assessor

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	NT OF HEALTH AND HUM/ YOU AND DRUG ADMINISTRATI		
12420 Parklawn Drive, Room 2032 Rockville, MD 20857 E-mail: ORAPHARMInternational483responses@fda.hhs.gov		08/11/2022-08/12/2022 08/15-19/2022; 08/26/2022	
		3003981475	
Mr. Ganesh D. Reddy, Global Head – Biologic	s Manufacturing		
Biocon Biologics Limited	Bommasandra-Jigani Link Road		
Bengaluru, Karnataka, India 560099	Drug Substance & Drug Product Manufacturer		

As a result, during review of such cases, the interrupted sample injections were not adequately documented to be performed in your laboratory incident reports, and calculations were not performed to determine whether the interrupted test injections were within specification or out of specification, where applicable. During multiple interrupted sequences, after the data was brought back (verified) during the inspection, a full run time with all principal peaks eluted for the sample solution was observed. Additionally, your firm has not demonstrated that you understand the different types of communication errors and circumstances which may lead to a "Data incomplete" or "Bad Checksum" chromatography. This discrepancy in your firm's ability to review, document, and investigate all electronic data is a gap in your firm's Data Integrity Program. As of the close of the current inspection, your firm has not initiated a deviation with respect to the incomplete data interrupted sequences observed during the inspection.

B: On or around 08/14/2021, during a routine walkthrough inspection by your firm's site OA in the Bioassay laboratory QC-Q8 in (b) (4) block facility, an intact/unopened sample of (b) (4) (2 Months Accelerated Stability), received for testing of Inhibition of Proliferation assay by (b) (4) (2 Biological activity), was observed to be present in the sample storage refrigerator, however testing records indicated that the analysis for this sample had been completed and the batch had been released to the India Market. As a result, Event 39548, dated 08/16/2021 and QMS Deviation 41034, dated 08/27/2021 were initiated, with subsequent investigation revealing that a total of six (6) commercial batches and nineteen (19) stability time points samples (b) samples). The investigation revealed that in lieu of testing the samples, analysts tested a reference standard instead. Per your firm's investigation, root cause factors included inadequate sample storage practices, shortage of manpower due to high attrition for qualified analysts, COVID impact, and analyst behavior. In response, your firm performed various laboratory risk assessments and data integrity assessments with the support of in-house compliance and external consultant support. Our review of these assessments found them to be inadequate: Specifically, your firm has at least (b) (4) different laboratories, and the retrospective review of data was not extended to all pertinent laboratory equipment with respect to the data integrity aspect of this investigation. For Example, your assessment of equipment in other laboratories did not identify HPLC/GC equipment as an equipment or system for review of data, however during the current inspection we identified significant gaps with the review of electronic data with respect to HPLC/GC testing operations.

OBSERVATION 5

SEE MEVERSE OF THIS PAGE	CUG BI M	Michael R. Shanks, Senior Biologist Arsen Karapetyan, INV-Dedicated Drug Cadre Ralph M. Bernstein, Biologist Zhong Li, Sr. Pharmaceutical Quality Assessor	08/26/2022
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12420 Parklawn Drive, Room 2032 Rockville, MD 20857 E-mail: ORAPHARMInternational483responses@fda.hhs.gov		@fda.hhs.gov	08/11/2022-08/12/2022 00 08/26/2022 PEI WAREN	8/15-19/2022;
			3003981475	
Mr. Ganesh D.	Reddy, Global Head – Biologics N	Manufacturing STREET ADDRESS		
Biocon Biologics			ommasandra-Jigani Link Road	
	rtaka, India 560099		nce & Drug Product Manufactur	er
Your firm's qua inadequate.	dity unit's oversight of your G	GMP manufactur	ing and laboratory operation	ons are
Specifically,	(b) (4)			
know the U approved st purview of	DS as your quality control (vials, and (b) (4) SP (b) (4) reference standard of ability protocol for the USP stayour QA oversight in your management.	OC) primary ref vials, intended expiration date. andard, which is	for release to the US mar You do not have a written required once the standard	ket. You do not and QA
(b) (4) d (b) (4) analysts, for	os that are responsible for the rugs, i.e., (b) (4) did not perform a v	erification of the sment analytics.	assessment of multiple sample(s)' identity to be In contrast, your QC labs on written verification.	proposed tested by the
the Q13 me container, in	ght of critical GMP Q13 samp zzanine 2-8°C stability chamb an unlocked drawer, in the Q to the room, along with seven	ers and 2-8°C ret 13 mezzanine st	tain chamber are stored in ability facility. (b) (4)	The state of the s
utilized for facility in B markets. Th (b) (4) facility product cod These produ	of the identity of, and discriming US market and the rest of workengalaru (3003981475) manufactor (b) (4) The Biocom (b) (4) Expression (b) (4) The Biocom (c) (a) (b) (4) The Biocom (c) (b) (4) The Biocom (c) (a) (b) (4) The Biocom (c) (b) (4) The Biocom (c) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d	ld (ROW), are not factured multiple in these DP are in facility manufacturing ised to prevent the control of th	ot appropriately controlled (b) (4) DPs intend nanufactured at your Bioco tures (b) (4) DS w processes and different (b) ne (b) (4) DS to be vials, (b) (4)	l. The Biocon led for different on (b) (4) with multiple (4) DS quality utilized for the
performed a types and gr that the corr	t your (b) (4) DP manufacturi ades of (b) (4) DS. T	ng facility which hus, there is no	ou do not currently have a can discriminate between assurance, by the process of g products to be marketed	these different or by testing,
SEE REVERSE OF THIS PAGE	UK 32 MS	Michael R. Sh Arsen Karape Ralph M. Ben Zhong Li, Sr. i	AND TITLE PRINT OF THE PRINT OF	08/26/2022
FORM FDA 483 (IMINE)	PREMIOUS EDITION OBSOLETE:	INSPECTIONAL (DBSERVATIONS	Page 13 OF 18

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	iocon Biologics t rv. stute, ar cone. cou			Bommasandra-Jigani Link Road		
В	engaluru, Karnat	taka, India 560099	Drug Subs	stance & Drug Product Manufactu	rer	
E.		unit does not fully ex . Specifically,	ercise its responsibili	ities regarding the critical ser	vice contractor	
	vendor i 23/29, d 6.46.4 si reinstate Biocon e product,	ate. Biocon SOP C/Gl may be blocked, but yo oes not adequately con tates that a "CAPA and the violative vendor. on-site audit, or a meti- or service.	B/QA/SOP/0051 stat our re-qualification o ntrol for the resumed d commitment letter" There is no inclusion iculous Biocon analy	atus follow up and re-instater es in section 6.45, page 22/2 if a blocked vendor see section use of a previously blocked if from the blocked vendor are n or mention in the proceduration of the previously	9, that a violative on 6.46, page vendor. Section e sufficient to e for a new	
	who is r product	manufacturing facilitie	dation of clean room es.	s in your Site drug substan		
	sterilizat		11 econtamination proce	Biological Indicators (BIs), the BI's are used for the quali- esses in your Site (b) drug sub-	fication of	
F.	Your (b) (4) procedures to	o prevent cross contan	nination of (b) (4)	cord instruction is not follow DP are inadequa		
	During an A process of D preparation f operator aliq (b) (4) tube. meter. The p (b) (4) sample (b) (4) contaminated	gency facility tour of P batch (b) (4) For the manufacture of uoted a sample of the The operator tested the H meter was not sanit back into the process to be filled into (b) (4) (4) (4) (4) (4) (5) (4) (4) (5) (4) (6) (6) (6) (6) (7) (7) (7) (8) (7) (8) (8) (8) (9) (9) (9) (9) (9) (9) (9) (9) (9) (9	the (4) upstream (b) (4) and facility (b) (4) (b) (4) from the pH of the tized or of a single us manufacturing tank, (b) (a) (c) (b) (a) (d) (d) (d) (d) (e) (d) (from the pH of	solution (b) (4) the process manufacturing tai sample with a standard se type. The operator then re which contains the (b) (4) P. This step of returning pote ne (b) (4) solu	The production nk into a (b) nL d, bench top, pH turned the tested solution (b)	
G.	There is no a review of all	electronic data by the	program in place to Quality Assurance U	nulated DP. include a statistically sound Juit for standalone and netwo hromatographic and non-chr	ork systems, to	
	SEE REVERSE OF THIS PAGE	Wh ZZ	Ausen Kar Arsen Kar Ralph M. Zhong Li,	R. Shanks, Senior Biologist rapetyan, INV-Dedicated Drug Cadre Bernstein, Biologist Sr. Pharmaceutical Quality Assessor	08/26/2022	

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TOOD AND DRUG ADMINISTRA DISTRICT ADDRESS AND PHONE MARKET 12420 Parklawn Drive, Room 2032 Rockville, MD 20857		08/11/2022-08/12/2022 08/15-19/2022; 08/26/2022			
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100	FIRM NAME STREET ADDRESS		Ira-Jigani Link Road		
61	ITY, STATE, ZIP GODE, COUNTRY	TYPE ESTABLES	MENT INSPOCTED		
В	sengaluru, Karnataka, India 560099	Drug Subs	tance & Drug Product Manufacturer		
OI	electronic data generated by the Quality Contr BSERVATION 6	ol Labora	tory.		
eq	nere is a lack of assurance that your cleaning pro- uipment in your Drug Substance and Fill-Finish eventing cross-contamination.				
Sp	pecifically,				
A.	The QC rinse recovery & swab recovery study include representative soils from the unconditioned (unused) and conditioned (end and addition, The study failed to include glass (aduring cleaning validation.	drug s of produc	ubstance manufacturing process, such as tion run, cell containing) cell culture media.		
В.	Your cleaning verification procedures for (b) (4) failed to include all surface (swab) samples frogaskets or O-rings.		lrug substance manufacturing equipment nardest to clean, such as (b) (4) valves,		
C.	Your cleaning verification procedures for (b) (4) failed to include all surface (swab) samples from		drug product manufacturing equipment nardest to clean, such as bottles and caps.		
D.	D. Your manual cleaning procedure for product-contact filling machine parts in (b) Fill-Finish, S2/BF/FM/SOP/0040 (version 4.0, effective 01-Aug-2022) does not define the (b) (4) rinse volumes that are required for accurate determination of product residue from a TOC rinse sample test result.				
OI	BSERVATION 7				
des	boratory controls do not include the establishment signed to assure that components and in-process entity, strength, quality and purity.		BEN'S 하는 경우 있는 경우를 하는 것이다. 이 그리고 이 전 전 경기를 다른 바로 바다 보는 것이다. 하는 것이다. 하는 1 Hell Select 이 전 3		
Sp	ecifically,				
A.	SOP # C/GB/QC/SOP/0069 "Guidelines for In (version 6.0, effective 29-Jul-2022) (refer to Sepoorly resolved peaks are integrated using the true area under the peaks. Your integrating	ection 6.4	.1) stipulates that "closely eluting peaks" or integration mode, which does not reflect		

EMPLOYEE(S) NAME AND TITLE (Frief or Type)

Ralph M. Bernstein, Biologist

Michael R. Shanks, Senior Biologist

Arsen Karapetyan, INV-Dedicated Drug Cadre

Zhong Li, Sr. Pharmaceutical Quality Assessor INSPECTIONAL OBSERVATIONS

DATE ISSUED

08/26/2022

Page 15 OF 18

EMPLOYEE(S) SIGNATURE

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FORM FDA 483 (09/06)

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	ARMInternational483responses	@fda.hhs.gov	3003981475	
	пла, то wном пероит вашез Reddy, Global Head – Biologics	Manufacturing		
Biocon Biologics	Limited	Bommasand	ra-Jigani Link Road	
UTY, 87475, 2P 0006, CO	CHINY	TYPE ESTABLISHMEN	пинести	
Bengaluru, Karna	etaka, India 560099	Drug Substar	nce & Drug Product Manufactur	er
the impurity	ler peaks and consequently us peaks. ndard testing procedure (STP)		P/159-01v003 utilized for	the release and
stability spe (b) (4) DP vi the Agency	cification "microscopy test" i al does not describe the proce instructs the analyst to measu	for (b) (4) edure that your Qure the (b) (4) size	DP (b) (4) and (c) analysts follow. The S7 (e) (4)	(4) (P provided to using a
(b) (4) field measure (b) (4)	with (b) (4) then to and to record the (b) (4)	o capture the field	d in the microscopy softwa range (maximum and mir	are, and to then
OBSERVATIO	ON 8			
	t established adequate procedura ontrol systems used for DS and I			
Specifically,				
during the ca	rized system (YOKOGAWA da libration of QC instrument, tem as not been validated to protect	perature mapping	and thermal validation of crit	ical process
B. There is a lac controls and	k of documented evidence that collects data from (b) (4)	the computerized s		
facility, has t for each data management	seen validated for data backup a set during the batch review pro- of user privileges. The system in, are also the engineers respons	cess. In addition, t administrators, res	trails enabled in the system here is inadequate segregation ponsible for control of the re	are not reviewed on of duties in the
was performe	dware upgrade for the SCADA ed in March of 2021. A revalida a not completed prior to the use	ition of the softwar	e installed on the system, SI	
OBSERVATIO	ON 9			
Computer syste operations for it	ms used in the testing of a dru intended use.	ng product are no	t of appropriate design to	facilitate
	ENVLOYED SIGNATURE	EMPLOYEE(S) NAME	E AND TITLE (Filer or Type)	DATE ISSUED
SEE REVERSE OF THIS PAGE	Che Br Mil	Arsen Karape Ralph M. Ber	nanks, Senior Biologist etyan, INV-Dedicated Drug Cadre rostein, Biologist Pharmaceutical Quality Assessor	08/26/2022
FORM FDA 483 (00/00)	PREVIOUS EDITION OBSICLETE	INSPECTIONAL	Company of the Compan	Page 16 OF 18

DEPART	TMENT OF HEALTH AND HUM. FOOD AND DROG ADMINISTRAT	
12420 Parklawn Drive, Room 2032 Rockville, MD 20857		08/11/2022-08/12/2022 08/15-19/2022; 08/26/2022
E-mail: ORAPHARMInternational483responses@fda.hhs.gov		3003981475
Mr. Ganesh D. Reddy, Global Head – Biolo		01//
Biocon Biologics Limited	Bommasandra-Jigani Link Road	
Bengaluru, Karnataka, India 560099	Drug Substance & Drug Product Manufacturer	

Specifically,

- A. Your firm does not have adequate written procedures for conducting Initial Qualification (IQ), Operational Qualification (OQ) and Performance Qualification (PQ). Specifically, qualification activities were performed by your software vendors for networked Empower V3.0 software for HPLC equipment. Your firm appears to have performed Performance Verification for Empower, however this verification is not adequate, in that, it does not evaluate the consistent performance of the software/equipment over a specified period and operating environment. For Example, during our review of your Empower 3 chromatography software, interrupted sequences were observed, which generated "Data Incomplete" and "Bad Check Sum" chromatographic data. Your firm has not demonstrated to understand the different types of communication errors and circumstances which may lead to a "Data incomplete" or "Bad Checksum" chromatography.
- B. Your firm maintains SOP S2/BF/QCM/SOP/0076, titled "Procedure For Review of CCTV the CCTV's installed in the microbiology laboratories in (b) and (d) Per this procedure, CCTV usage can be used to support OOS investigations by reviewing footage where "duration of the availability of the footage" is (b) (4) Your firm has not validated the CCTV software Milestone Xprotect Smart Client 2014 to depict that the software functions as purported in a consistent and accurate manner that is secure, reliable, and traceable. In fact, during the inspection, we reviewed two microbiology OOS investigations, OOS No. MM-OOS/M/CS/21/001 (dated 05/13/2021) and OOS No. MM-OOS/M/FP/22/001 (dated 06/07/2022) where CCTV footage was used in support of the root cause analysis which invalidated the OOS; however, all footage was automatically purged after (b) (4) and your does not have a process in place to save footage which was used in support of these investigations.

OBSERVATION 10

GMP Equipment is used outside its validated acceptance criteria for critically controlled material. Specifically,

Quality Control Stability Chambers, QC-Q13-AI-141 and QC-Q13-AI-142, located in QC Building Q13, are validated for 2 – 8 °C and both have had numerous excursions from their validated temperature over the past two year. Additionally, these excursions have not triggered deviations to be opened.

EMPLOYEE(S) SIGNATURE EMPLOYEE(S) NAME AND TITLE (PICE or Type) DATE ISSUED SEE Michael R. Shanks, Senior Biologist REVERSE Arsen Karapetyan, INV-Dedicated Drug Cadre OF THIS 08/26/2022 PAGE Ralph M. Bernstein, Biologist Zhong Li, Sr. Pharmaceutical Quality Assessor FORM FDA 483 (09/08) INSPECTIONAL OBSERVATIONS PREMIOUS PROTON ORBOLETE Page 17 OF 18

	DEPARTI	MENT OF HEALTH AND HUMA	AN SERVICES	
DOCTRICT ADDRESS AND P	NOME MANUER	FOOD AND DRUG ADMINISTRATI	ON DATEON OF INSPECTION	
12420 Parklawn Drive, Room 2032 Rockville, MD 20857		08/11/2022-08/12/2022 0 08/26/2022	8/15-19/2022;	
	ARMInternational483respon	ises@fda.hhs.gov	3003981475	
	Mr. Ganesh D. Reddy, Global Head – Biologics Manufacturing			
Biocon Biologics	Limited	Bommasand	andra-Jigani Link Road	
Bengaluru, Kama	ataka, India 560099	TYPE ESTABLES MENT NESSECTED Drug Substance & Drug Product Manufacturer		
OBSERVATIO			(6) (4)	
Your firm has r manufacturing	not adequately qualified the processes in the Building	e critical utility used b Fill-Finish manufa	cturing facility.	ug product
Specifically,				
The (b) (4)	lelivered to the facility	has not been sample	d at the points of use and t	ested for purity,
impurities, and	odor as specified in the U:	SP-NF.		
		AK		
	EMPLOYEES SIGNATURE /	EMPLOYECES HAW	E AND TITLE (Proces Type)	DATE ISSUED
SEE REVERSE OF THIS PAGE	and Monocky	Arsen Karap Ralph M. Be	hanks, Senior Biologist etyan, INV-Dedicated Drug Cadre rnstein, Biologist Pharmaceutical Quality Assessor	08/26/2022
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