		ENT OF HEALTH AND HUMAN SERVICES DOD AND DRUG ADMINISTRATION			
DISTRICT OFFI	CE ADORESS AND PHONE NUMBER	DATE(S) OF INSPECTION			
	awn Drive, Room 2032		2023 & 01 Sept 2023		
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	rmation: www.fda.gov/oc/industry	3010479596			
End (USE 100 CAN FIRE CONTROL	E OF INDIVIDUAL TO WHOM REPORT IS ISSUED				
TO: Keith A	. Ellis, Vice President QA Department				
FIRM NAME		STREET ADDRESS			
Samsung Bio	ologics Co., Ltd.	300, Songdo bio-daero, Yeonsu-gu	laero, Yeonsu-gu		
CITY, STATE AN	D ZIP CODE	TYPE OF ESTABLISHMENT INSPECTED	IENT INSPECTED		
Incheon, 219	87, Korea (the Republic of)	Drug Manufacturer			
OBSERVATIONS OBSERVATION, OBJECTION OR YOU HAVE ANY	AND DO NOT REPRESENT A FINAL AGENCY DO OR HAVE IMPLEMENTED, OR PLAN TO IMPLE	REPRESENTATIVE(S) DURING THE INSPECTION OF YOUR FACILITY. T ETERMINATION REGARDING YOUR COMPLIANCE, IF YOU HAVE AN OB- EMENT CORRECTIVE ACTION IN RESPONSE TO AN OBSERVATION, JURING THE INSPECTION OR SUBMIT THIS INFORMATION TO FDA AT ONE NUMBER AND ADDRESS ABOVE.	JECTION REGARDING AN YOU MAY DISCUSS THE		
DOMESTIC ANTINO	PESTION OF TOOR PINK III (NEL) OBSERVED.				
OBSERVA	TION I				
The Manuf	acturing Scientific Analytical Tecl	mology (MSAT) laboratory used in support of app	lication		
submission	testing data had inadequate contro	ols over data integrity. Specifically,			
with the lab Although y assessment true reliabil B) An asses already con DEV-01010 lack of aud	poratory a development laboratory ou conducted an internal data inter- ity of all test data, with a third-par- assment to determine how the use of numerically marketed products has 58, which included, but is not limit	having inadequate controls in assurance of data integrity assessment for each application, with complete period, there is no means of determining with absorty independent assessment of the test data not perform the MSAT lab in support of submission data to the not been completed. Data integrity deficiencies we ted to, shared administration passwords, lack of datied as being used to generate data which was submission used to generate data which was submission.	tion of the lute certainty the formed. The Agency affects are identified in the backup, and		
MSAT Lab hoc audit (S documentat Managemer work that in pertaining t included the	oratory, you indicate the first inter SIR(b) (4) 05), and while no data in ion practice and data verification part, a subsequent audit was perform acluded GMP requirements (e.g., so shared administration accounts a introduction of equipment logbooms.	correct integrity gaps and inappropriate GMP pranal audit of the MSAT Laboratory was (b) (4) Integrity issues were identified, a recommendation to procedures was identified. At the request of Senior (SIR-(b)) (SIR-(as an ad- o implement good Quality oratory areas of observation of accounts irements, with		

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	DEPARTMENT OF HEALTH AND HUM	MAN SERVICES			
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Samsung Biologics Co., Ltd.	300 Sone	do bio-daero, Yeonsu-gu	bio-daero, Yeonsu-gu		
CITY, STATE AND ZIP CODE		BUSHMENT (NSPECTED			
	cheon, 21987, Korea (the Republic of) Drug Manufacturer				
	[1] 사용하다 (하다리) : ^ (1) 이 그는 사람들은 사람들이 되었다. [1] [1] [1] [1] [1] [1] [1] [1] [1] [1]	ogbooks. Although you opened CAPAs in			
response to the (b) (4) audit, the scope	of the remediation plan did no	ot fully assess data integrity gaps, focusing			
solely on traceability of equipment u	isers, with no action taken for s	shared administrative passwords.			
You received observations and recor	nmendations from a client aud	it 06 July 2022 and 01 September 2022 spec	ific		
to the MSAT Laboratory data manag	gement practices, with Samsung	g senior executive tour of the MSAT			
		n password written on PCs, use of shared			
k 기계 시스(Cartella Cartella	하나 동네는 그 집에 가지하는 모든 중 사람들은 회사들은 이번 이번 가게 되었다.	d spreadsheets used to track samples, use of	6		
		HERE 및 특용 : (1957) 이 10 10 10 10 10 10 10 10 10 10 10 10 10			
		the laboratories, and safety issues. The same			
similar findings were reported through	gh the MSA1 internal audits co	onducted (b) (4) (SIR(b) (4) -05) and (b)			
(b) (4) (SIR(b) (4) 06).					
			1017		
7	ciencies in a timely manner in	assurance of data quality, data integrity used	i in		
regulatory submissions.					
You further failed to notify clients in	a timely manner, where the M	ISAT laboratory deficiency was identified in	K i		
September 2022, with dates of client	notification ranging from 17 (October 2022 to 16 January 2023.			
OBSERVATION 2					
Written production and process conti	rol procedures are not followed	d, established, or are deficient. Specifically,			
		NAME OF THE PROPERTY OF THE PR			
A) On 25 August 2023, observed for	Plant (b) RABS Fill Line (b) Ba	ttch #(b) (4) was the transitio	ers.		
of the (b) (4) stopper bowl from	Grade B space into the Grade	A RABS. Furthermore, observed was the			
transition of a (b) (4)	프로마스 그 아이들은 그리고 있는데 이 없는 것이 없었다. 그 아이들은 그리고 있는데 그렇게 되었다.	and Park Charles (1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	200		
		pace to the Grade A RABS, where the (b) (4)	nag		
		the Grade A RABS. In both fill line setup			
		ace. On 30 August 2023, a similar observation	98		
was made during a review of the Fill		video under GENP-02057. Observed was the			
opening of the (b) (4)	bagged stopper bowl in Gr	rade B space, with the (b) (4) bag transitioning	g to		
the RABS Grade A space that includ	ed a majority of the (b) (4) bag.	SOP-MFE-00293, "Operation and			
		ive date 29 August 2023 fails to provide			
		pment from Grade B space to the Grade A			
EMPLOYEE(S) SIGNATURE	100	VME AND TITLE (Print or Type) DATE ISSUED	-		
SEE VIS A Marro	Tothery C. Reiner	Mackenthe, Consumer Suffer affect			
OF THIS SHE	11 01	I for all many the first that the contraction of th			
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	DEPARTMENT OF HEALTH AND HUMAN FOOD AND DRUG ADMINISTRATIO			
DISTRICT OFFICE ADDRESS AND PHONE NUMBER 12420 Parklawn Drive, Room 2032 Rockville, MD 20857 ORAPHARMInternationalResponses@fda.hhs.gov OPMABLAInspection483Responses@fda.hhs.gov Industry Information; www.fda.gov/oc/industry		21-25, 28-31 August 2023 & 01 Sept 2023 FEI NUMBER 3010479596		
NAME AND TITLE OF INDIVIDUAL TO WHOM REPO	115,176,125,000			
TO: Keith A. Ellis, Vice President QA Do	epartment STREET ADDRES	e		
Samsung Biologies Co., Ltd.		bio-daero, Yeonsu-gu		
CITY, STATE AND ZIP CODE		MENT INSPECTED		
Incheon, 21987, Korea (the Republic of)	Drug Manufac	cturer		
for Drug Product" version: 37, Effectivill review excerpts of media fill vitechnique identified are discussed at media fills dated 22-June-2021 (bate and are not available for viewing. C) Your procedure, MET-00018, "C 07/08/2023, version 43.0 Section 8.1 Aseptically open the contact plate at	ctive Date: 28-July-2023, states all ideo with Quality and Operations and provided remedial training to rech (b) (4) and 23-June-2021 (ball Quantitation of Viable Microorgani 2.1.9 states "For personnel gloves and place his/her fingers with the gloves	isms by Contact Plates", Effective Date monitoring, using Finger Dab Method - love gently on the media surface of one (1)		
thumb touches the surface of the me follow your procedure for fingertip instead of their finger pads during the	edia)". On 23-Aug-2023, we obser- personnel monitoring. Operators we he aseptic filling of sterile injectable.			
assemblies before use or installation residue, or defects. Observed was n absence of defect or debris within ea operating procedure not followed. I closure system visual inspection.	cording to SOP-MFP-00074, "Instance of the control of the design and verify that it is integral and from the drug subsection of the drug subsech bottle that could have an impact there is no documentation requires	pection of Process Equipment and visually inspect materials, probes, parts, and ree of debris, surface anomalies, foreign estance container closure systems for ct on product quality, with the standard ment for the drug substance container		
E) According to SOP-MFE-00280, Effective date 25/08/2023, Section 7 while unloading the (b) (4)	7.7 includes inspection for steriliza			
SEE REVERSE OF THIS PAGE PAGE PAGE PAGE	EMPLOYEES NAME I	AND TITLE (Prior or Type) AND TITLE (Prior or Type) ANTE (STATE OF OFFICE OFF		
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	T OF HEALTH AND HUMAN SERVICES D AND DRUG ADMINISTRATION
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Rockville, MD 20857 ORAPHARMInternationalResponses@fda.hhs.gov	FEI NUMBER
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Industry Information: www.fda.gov/oc/industry	3010479590
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Incheon, 21987, Korea (the Republic of)	Drug Manufacturer
monitoring parameters for the methods of which e. (b) (4) SEC and Binding ELISA methods) and parameters, for the methods of which performan (b) (4) HCP, HCD and (b) (4) methods of which performan (b) (4) HCP, HCD and (b) (4) methods of which performan (b) (4) m	oring" (ver.15.0, effective on 30 Jun 2022) does not include the performance monitoring was originally waived, but is needed (i. does not include a justification for not assigning monitoring needed monitoring was originally waived (i.e., (b) (4) Peptide Mapping, ods). The properties of the performance of the perfor
A) Airflow visualization studies have not been p MFP-00206, "Airflow Visualization Evaluation	performed for all interventions as required by procedure: SOP- ", Version: 8.0, Effective Date: 26-June-2023. The removal of the removal, adjustment/maintenance, and re-installation of the tof smoke studies.
(b) (4) value filled with drug product can be procedure or HMI limitation for how long product.	purfacture includes a (b) (4) vial conveying system, where filled and pending stoppering during a line stoppage. There is no act filled vials can be exposed to the filling environment pending period to be assessed by media fill. Your Quality Risk d impact on product quality. Supplied and Date ISSUED Date ISSUED Date ISSUED

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THE RESIDENCE OF THE PARTY OF T	Ellis, Vice Presider						
FIRM NAME		777 796 T. T. T. T. T. BOTT T. T. S.		STREET ADDRESS	T ADDRESS		
Samsung Bio	ologics Co., Ltd.	ž.		300, Songdo bio-daero, Yeonsu-gu			
CITY, STATE ANI		nax ost		TYPE OF ESTABLISHMENT INSPECTED			
Incheon, 219	87, Korea (the Repul	blic of)		Drug Manufacturer			
	surface followed l	hy(b) (4)	for the	arly describe the freq following unit opera oreactor, and (b) (4)	tions: (b) (4)	Operation of ation of (b) (4)L	
OBSERVA	TION 4						
76/2 (600) NO 300 (60) NO 12 (40) NO	Committee of the commit	sed in the processing	of dru	g product is not perfe	armed at appra	opriate intervals	
Specifically		ova in the processing	OI WIN	g product is not pern	ames at appr	aprilate interviews.	
A) Your fin example:	m's Quality Unit	failed to ensure equi	pment	is maintained and us	ed within its v	alidated state. For	
		11: Was due on 01-Ju ed (b) batches using i				revalidated until 21- e using this equipment.	
_(b) (4)	IE) 130(b) (4) 3	220: Was due on 02	Dec. 2	021 However the ec	winment was	not revalidated until 16-	
120000000000000000000000000000000000000		ed (b) (4) batches using				me using this	
equipment.		and white the state of the stat			11300001100000		
(b) (4)						not revalidated until 03-	
Jan-2022. Y	our firm produce	ed (b) batch using ite	ems tha	t were(b) (4) w	thin this time	using this equipment.	
-HPLC ID I	150-HPI C-001: V	Was due for revalidat	ion (b)	(4) from the last rows	didation whic	h was performed on 20-	
				g used past its revalid			
0.00							
-HPLC 150	-HPLC-006: Was	due for revalidation	(b) (4)	from the last revalid	ation which w	as performed on 16-	
Aug-2023. I	However, this equ	uipment was observe	d being	g used past its revalid	ation due date	b es	
ELICA D	P . ID 150 E .	00 000 101 1 6	45	1.1. (b) (A) c d	1		
	The second secon			lation (b) (4) from the as observed being us			
parament	EMPLOYEE(S) SIGNA			MPLOYEEIS) NAME AND TITLE		DATE ISSUED	
SEE	July of them.	7.05116	100	adverty & Rainman, Indian	foreumer late	ty-officer	
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Rockville, MD 20857	21-25, 28-31 August 2023 & 01 Sept 2023
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Industry Information: www.fds.gov/oc/industry NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT IS ISS	3010479596
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includes a(b) (4) supplied v process validated both physically and biol basis in assurance the validated state is ma OBSERVATION 5 The Quality Unit is inadequate to ensure it	ogically, June 2020. The(b) (4) is not revalidated on a routine
closed within their respective due dates, B	ity records such as deviations and non-conformance investigations are setween Quarter 1 2022 and Quarter 2 2023 the average amount of investigations were 10% and 18%, respectively.
consecutive failures for the same sample f (high invalid assay rate), were reported for and MET-00718 - (D)%). In addition, labor using PEMME (people, equipment, metho invalidation rate will be monitored continu	dure" (ver. 22.0, effective on August 18, 2023) allows for up to or select methods. Multiple invalid runs, including consecutive runs or (b) (4) and (b) (4) (MET-00274 - (b)%) and for (b) (MET-00717 - (b)%) ratory investigations for SST failures did not identify abnormalities od, material, environment) tool and investigations concluded that acousty since root cause of invalid runs was not identified. This is a repeat viously observed during FDA inspection of the facility in 2022 and in appear not effective.
inadequate. For example, your firm opened glucanolyticus a spore forming microorgat However, your firm failed to extend the in	nmental monitoring in which sterile drug products are filled are d deviation DEV- 010542 due to a recovery of Paenibacillus nism during the filling of sterile drug product, (b) (4) Lot (c) (d) Lot (d) Lot (d) (d) Lot (d) L

FORM FDA 483 (9/08) PREVIOUS EDITION OBSOLETE

INSPECTIONAL OBSERVATIONS

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DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION DISTRICT OFFICE ADDRESS AND PHONE NUMBER DATE(S) OF INSPECTION 12420 Parklawn Drive, Room 2032 21-25, 28-31 August 2023 & 01 Sept 2023 Rockville, MD 20857 ORAPHARMInternationalResponses@fda.hhs.gov FEI NUMBER OPMABLAInspection483Responses@fda.hhs.gov 3010479596 Industry Information: www.fda.gov/oc/industry NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT IS ISSUED TO: Keith A. Ellis, Vice President QA Department FIRM NAME STREET ADDRESS Samsung Biologies Co., Ltd. 300, Songdo bio-daero, Yeonsu-gu TYPE OF ESTABLISHMENT INSPECTED CITY, STATE AND ZIP CODE Incheon, 21987, Korea (the Republic of) Drug Manufacturer Additionally, during the inspection, we observed that personnel monitoring is not performed according to your procedure. See OBSERVATION 2C. OBSERVATION 6 Facilities are not adequately maintained. Specifically, A) On 25 August 2023, observed was a ceiling port cover dislodged in Grade B space, directly over where Plant (b) (Fill Line (b) RABS(b) (4) open. The condition was observed during fill line setup for manufacture of (b) (4) Batch # (b) (4) B) On 21 August 2023, observed within the GMP warehouse, Solid Waste Collection WI-1130 was a door leading to the outside, with the door bottom damaged. Furthermore, in Office Supply WI-1131, a floor receiving and loading ramp dock mechanism was missing a seal. Each condition is a potential entry point for pests to enter the facility. C) On 21 August 2023, a deteriorated sealant between floor and wall was observed in (b) (4) Preparation room in Plant (b) (4) EMPLOYEE(S) SIGNATURE DATE ISSUED EMPLOYEE(S) NAME AND TITLE (Print or Type) Willy of Davish r salety officer Dog beda Fy Macken bit, consequer sofety officer REVERSE 1, Consumer Subly wheer OF THIS 09/01/2023 IN LOS, Pharmacontlino