DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION					
DISTRICT ADDRESS AND PHON 12420 Parklav Rockville, MI	vn Drive, Room 2032		DATE(S) OF INSPECTION 6/2/2025-6/13/2025* FEI NUMBER 3002809586		
NAME AND TITLE OF INDIVIDUA	Vice President - Operations		Ţ		
FIRM NAME	vice Flesident - Operations	STREET ADDRESS			
Sun Pharmace	itical Industries Ltd.	2/	Baroda Highway		
	at, 389350 India	Drug Man	ufacturer		
observations, and do observation, or have action with the FDA	observations made by the FDA representative(s) not represent a final Agency determination reg implemented, or plan to implement, corrective representative(s) during the inspection or submatest FDA at the phone number and address about	arding your cor action in respon it this informat	mpliance. If you have an objection r nse to an observation, you may disc	egarding an ass the objection or	
OBSERVATIO Procedures desi are not establish Examples of po	DURING AN INSPECTION OF YOUR FIRM WE OBSERVED:  OBSERVATION 1  Procedures designed to prevent microbiological contamination of drug products purporting to be sterile are not established and followed.  Examples of poor aseptic behavior and inadequate environmental monitoring are repeat observations from the December 2022 Warning Letter.				
	and aseptic filling of June 4, 2025, the following was ob	served:	(b)(4) Injection ba	tch (b) (4)	
the Grade B ope	pen vials were periodically collecte erator's gloved hands, from outside ot disinfected prior to moving it into	the filling b	parrier under the filling bar		
with a (b)	The was used near the with a glove above the level of open vials while collecting samples and then passes it back under the barrier to perform volume checks. This check is performed at least				
	Upon exit, the personnel that handle the outside the barrier and pass it into the barrier without disinfection are held to Grade B limits during personnel monitoring.				
b. During the aseptic connection between the sterilized product tank and the filling machine, the					
SEE REVERSE OF THIS PAGE	Justin A Boyd, Investigator Pratik S Upadhyay, Investig Drug Cadre Lisa L Flores, Office of Gl Strategy Employee	ator - De	Signed By: 2000358686 Date Signed: 06-13-2025 13:11:34	DATE ISSUED 6/13/2025	

		TH AND HUMAN SERVI ADMINISTRATION	CES			
DISTRICT ADDRESS AND PHON	me number In Drive, Room 2032	6/2/2	NSPECTION 025-6/13/2025*			
Rockville, MI		FEI NUMBER				
		30028	09586			
NAME AND TITLE OF INDIVIDUA						
Virang Shah,	Vice President - Operations	STREET ADDRESS				
	ntical Industries Ltd.	Halol - Baroda				
Halol, Gujara	at, 389350 India	Drug Manufactu				
operator reached	d their hand and forearm over the op	en tank port.		(6) (4)		
	otic connection. (6)(4) barrier (6)(4) be ade and the adjacent Grade B area v		area where the ase	ptic (b) (4)		
viable particle c stands during th the aseptic conn c. During set-up	There was no personnel monitoring associated with this Grade A aseptic connection operation. The non-viable particle count probe and settle plate for this area is located behind where the stands during the aseptic connection because there is not adequate space to collect these samples near the aseptic connection.  c. During set-up, the operator's gloved hand was holding the sterilized stopper chute that contacts stoppers as they move from the stopper bowl to the The protective cover had already					
	on of stoppers, the (b)(4) gloves we	ere observed over t	he sterile stoppers a	nd the sterile		
				(6) (4)		
appropriateness	of air flow to the exposed stoppers	The second secon	have not thoroughly	y evaluated the		
limitations, the transfer into the	oduct tank is transferred to the filling tank is removed in a Grade B area. The Grade A area. The tank was placed the Grade A area and was not thorough	The tank was not tho on a	that is also transfe	ed before		
SEE REVERSE OF THIS PAGE	Justin A Boyd, Investigator Pratik S Upadhyay, Investigator Drug Cadre Lisa L Flores, Office of Glo Strategy Employee		Justin A Boyd Investigation Signed By 2000358666 Date Signed: 06-13-2025 X 13:11:34	DATE ISSUED 6/13/2025		
FORM FDA 483 (09/08)	PREVIOUS EDITION OBSOLETE INS	PECTIONAL OBSERVAT	TIONS	PAGE 2 of 19 PAGES		

FORM FDA 483 (09/08)

PREVIOUS EDITION OBSOLETE

	DEPARTMENT OF HEAL FOOD AND DRUG				
DISTRICT ADDRESS AND PHON	wn Drive, Room 2032		DATE(s) OF INSPECTION 6/2/2025-6/13/2025*		
Rockville, MI			FEI NUMBER		
			3002809586	δ	
NAME AND TITLE OF INDIVIDUA					
Virang Shah,	Vice President - Operations	STREET ADDRESS			
Sun Pharmaceu	utical Industries Ltd.	Halol -	Baroda High	nway	
CITY, STATE, ZIP CODE, COUN	nry at, 389350 India	Drug Man	ufacturer		
naioi, Gujara	ac, 309330 India	Diug Haii	uraccurer		
disinfection of a	all areas before transfer into the Gra	de A area.			
0.5	(b)(4)				
f. During install				protective cove	
	them first. They then reached over	the expose	ed Wil	th the (b) (4) g	loves to
remove the cove	erings for the other				
a During set-ur	and environmental monitoring, per	reannel left	barrier (b) (4)	to Grade A ar	(b) (4)
	hile performing activities in other a		Odiffer	to Grade II ar	Cae
diffice costains w	mie periorining denvines in omer d	reas.			
h. During set-up	and filling operations, operators w	ere observe	ed to allow the	eir gowns to to	uch the Grade
A side of a	o and filling operations, operators w glove barrier	(b	and each	other due to ins	sufficient
	ney needed to perform activities.		Transfer also Committee and Committee		
AZIII MININ HANI					0
	de of the (b)(4) glove the operator of	contacted w	as not disinfe		
The same of the sa	de B, the barrier is disinfected upor	1 (6) (4) bi	ut not the	glove that	has been
exposed to Grad	le B.				
				a	4 44
	f time between removal of wraps or				· ·
	ronmental monitoring, was approxing cess for the same product was comp				
16, 2025, and ba					ne process
	controlled movements on June 4, 20				-
	previous batches.	25, could 1	inve occir con	inpreted in thes	e shorter time
1					
2. During asepti	ic filling of (b)(4) Injection b	atch	<sup>(b) (4)</sup> on June	2, 2025, on the	e vial line of
Block (4)			1.7	and the	
a. While changi	ng (b)(4) air sample using (b)(4)	glove	(b) (4) the	e environmenta	al monitoring
	EMPLOYEE(S) SIGNATURE				DATE ISSUED
SEE REVERSE	Justin A Boyd, Investigator		1		6/13/2025
OF THIS PAGE	Pratik S Upadhyay, Investiga	ator - Dec	dicated	Justin A Boyd Irvestigator Signed By: 2000358686	
	Drug Cadre Lisa L Flores, Office of Glo	obal Poli	x and X	Date Signed: 06-13-2025 13:11:34	
	Strategy Employee	war roll	J and		
	20 9550/0 50 570/5				

FORM FDA 483 (09/08)

PREVIOUS EDITION OBSOLETE

PAGE 3 of 19 PAGES

	DEPARTMENT OF HEAL FOOD AND DRU	TH AND HUMA G ADMINISTRATI		
DISTRICT ADDRESS AND PHON	E NUMBER		DATE(S) OF INSPECTION	
Rockville, MI	n Drive, Room 2032		6/2/2025-6/13/2025* FEI NUMBER	
MOCKVIIIC, III	20007		3002809586	
NAME AND TITLE OF INDIVIDUA	L TO WHOM REPORT ISSUED		<u> </u>	
Virang Shah,	Vice President - Operations	STREET ADDRESS		
	tical Industries Ltd.	NAMES AND ADDRESS OF	Baroda Highway	
CITY, STATE, ZIP CODE, COUNT		TYPE ESTABLISHME	The state of the s	
Halol, Gujara	at, 389350 India	Drug Man	nufacturer	
contact and rest  b. An environment	ne completed plate out of the barrie on the sterile stoppers that were in ental monitoring operator crossed the	r, the emplo the track the	hat would later be placed on to filled vials.	
operator crossed	I the Grade A space through the sand without disinfecting the (b)(4) as r	ne <sup>(b) (4)</sup> cor required by	onveyor. The were then and	
to change enviro	f environmental monitoring was not The environmental monitoring personmental monitoring plates in the G e line, and then crossing again to cha	onnel move Frade A area	ed through the conveyor with a can before returning with the conveyor with a can be set or end of the conveyor with a can be set or end of the can be set or end or	
42 minutes to co	Tay 27, 2025) and 17 minutes (batch	nis same pro (b)(4) rolled observ	lates starting at 15:56 on June 2, 2025, took rocess was completed in 15 minutes (batch on May 25, 2025). Personnel could not rived movements on June 2, 2025, could vious batches.	
3 For asentic or	owning of operators associated with		(b)(4) Injection	
	on June 4, 2025:	7	injection	
a. The design of the aseptic gowning space requires the operators to reach over the crossover bench and around a cabinet door that opens towards them to reach aseptic gowning material. This is done while wearing garments from the Grade C This crossover bench is only sanitized according to SOP028811 "Gowning and Degowning Procedure". Operators were observed to place their				
SEE REVERSE OF THIS PAGE	Justin A Boyd, Investigator Pratik S Upadhyay, Investigator Drug Cadre Lisa L Flores, Office of Glo Strategy Employee		Signed By: 20003:58686 Date Signed: 06-13-2025 X 13:11:34	

FORM FDA 483 (09/08)

PREVIOUS EDITION OBSOLETE

PAGE 4 of 19 PAGES

	DEPARTMENT OF HEAL FOOD AND DRUG				
12/120 Parklas	⊫NUMBER √n Drive, Room 2032		DATE(S) OF INSPECTION 6/2/2025-6/13	3/2025*	
Rockville, MI			FEI NUMBER	7/2025	
			3002809586		
NAME AND TITLE OF INDIVIDUA			<u>.</u>		
Virang Shah,	Vice President - Operations	STREET ADDRESS			
L-100	itical Industries Ltd.	SANGE ATTO ATTO	Baroda Highway	7	
CITY, STATE, ZIP CODE, COUN		TYPE ESTABLISHM	And the second s		
Halol, Gujara	at, 389350 India	Drug Man	ufacturer		
Subsequently, o  b. While putting After the gown	feet with the Grade C area coverings on this crossover bench before and during aseptic gowning. Subsequently, operators sat on the same bench after donning their sterile gown.  b. While putting on the aseptic gown, an operator allowed the gown to touch the bag of the trash can. After the gown had been put on, the operator used their hand to push the packaging material in the overflowing trash can down, allowing the arm of the sterile gown to touch the disposed material and trash can.				
and the second of the first of the second of	vas observed to touch the external s septic area gown.	urfaces of t	he aseptic gown	with their a	arm while
the waist of their	ental monitoring operator inside the ir gown. Personnel from outside the ik no further actions when the perso	filling area	attempted to sign	nal the ope	rator to leave
4. During review	w of media fills recordings and smo	ke studies f	or the vial line in	Block (4)	
a. An operator reaches over sterile stoppers and the stopper track with the intervention for elimination of a stopper jam in the glove reaches over the stoppers and stopper track during this intervention. The intervention procedure SOP028207 states the over the sterile part during this intervention.					
b. An operator reached over the stoppers and stopper track with the slowly while changing of the air plate using glove during media fill on February 9, 2025.					
SEE REVERSE OF THIS PAGE	EMPLOYEE(S) SIGNATURE  Justin A Boyd, Investigator  Pratik S Upadhyay, Investigator  Drug Cadre  Lisa L Flores, Office of Glo  Strategy Employee		Signed E Date Sig X 13:11:34		DATE ISSUED 6/13/2025

FORM FDA 483 (09/08)

PREVIOUS EDITION OBSOLETE

PAGE 5 of 19 PAGES

		LTH AND HUMAN SERVICE IG ADMINISTRATION	S
DISTRICT ADDRESS AND PHON		DATE(S) OF INSP	ECTION .5-6/13/2025*
Rockville, M	wn Drive, Room 2032 D 20857	FEI NUMBER	MARKATON A
		3002809	586
NAME AND TITLE OF INDIVIDUA	AL TO WHOM REPORT ISSUED		
Virang Shah,	Vice President - Operations	STREET ADDRESS	
E-104 5.3550.3	utical Industries Ltd.	Halol - Baroda H	ighway
CITY, STATE, ZIP CODE, COUN		TYPE ESTABLISHMENT INSPECTED	
Halol, Gujara	at, 389350 India	Drug Manufacture	r
	reaches over open vials with the	(b) (4) glove while remo	oving fallen vials at the (6)(4)
in the smoke stu	idies.		
		(b) (4) O 1	(6)(4)
5. During review	w of media filis and		n the vial line in Block (6)(4)
several deficien	cies in aseptic technique were iden	iiied:	
a Operator read	ching into the Grade A area and ren	nove vials with gloved	hands not using forcers and
	in a waste bin in Grade B without		
		Christian Stable 10 100	
b. Operator in tl	he aseptic processing area picked u	p and moved a step sto	ool using gloved hands. The step
stool's floor con	ntact points were visibly exposed du	iring this action.	
0 1 6	(b)(4) (1 (1	(b) (4) ·	D 6 (b) (4)
c. Operators fail interventions.	ling to disinfect that ha	ave into Grade	B areas after
interventions.			
d A (b)(4) typica	ally stored in the Grade B area, was	introduced into the G	rade A environment and seen
	nterior surface of the		(b) (4) gloves without
undergoing san			Comment System Comments and Comments
OBSERVATIO			
	gned to prevent microbiological co	~ -	roducts purporting to be sterile
did not include	adequate validation of the aseptic p	rocess.	
Inadequate med	lia fills is a repeat observation from	the December 2022 V	Varning Letter
masequite mea	and initial is a repeat cost various from	me December 2022	Turning Detter.
1. Aseptic Proce	ess Simulation (media fill)	(b) (4) in (b) (4) Parei	nteral Area, Filling Line (b) (4)
for (4)mL vial p	erformed for	(b) (4) inject	ction (a) mg/ml, (b) (4) ml vial does
not accurately r	epresent the actual manufacturing p	process. Deficiencies i	nclude but were not limited to:
	EMPLOYEE(S) SIGNATURE		DATE ISSUED
SEE REVERSE	Justin A Boyd, Investigator		6/13/2025
OF THIS PAGE	Pratik S Upadhyay, Investig	ator - Dedicated	Justin A Boyd Investigator Signed By: 2000358686 Date Stonest On-13-2025
	Drug Cadre Lisa L Flores, Office of Gl	obal Policy and	X 13:11:34
	Strategy Employee	COMMENT TO THE PARTY OF THE PAR	
FORM FDA 483 (09/08)	PREVIOUS EDITION OBSOLETE IN	SPECTIONAL OBSERVATIO	DNS PAGE 6 of 19 PAGES

#### FOOD AND DRUG ADMINISTRATION DISTRICT ADDRESS AND PHONE NUMBER 6/2/2025-6/13/2025\* 12420 Parklawn Drive, Room 2032 Rockville, MD 20857 3002809586 NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED Virang Shah, Vice President - Operations STREET ADDRESS Sun Pharmaceutical Industries Ltd. Halol - Baroda Highway CITY, STATE, ZIP CODE, COUNTRY TYPE ESTABLISHMENT INSPECTED Halol, Gujarat, 389350 India Drug Manufacturer Commercial Manufacturing Process Aseptic Process Simulation In-process fill checks involve passing a During media fills the 60(4) is kept (b) (4) into the Grade A area, inside the barrier and the vials are holding the (b) (4) above the level of the lifted and then placed back on the line by the operator. The (b)(4) is open vials, then moving the (6)(4) to a Grade B area of the room for volume never removed from the line and verification. The (b) (4) is not disinfected transferred to the Grade B area when it is passed from Grade B to where the fill volume check is Grade A. completed. Aseptic Connection is done by (6)(4) Aseptic Connection was (b) (4) operator operators positioned on opposite sides conducted by of the formulation tank. These eliminating the forceps transfer and need to reach across the tank. operators exchange forceps, used for removing the aseptic connection tubing. This transfer takes place across the top of the tank, directly above its uncovered, open outlet. Stopper bag placement is performed by Stopper bag placement done by <sup>(b) (4)</sup> operator. operators who were observed (b) (4) laminar airflow touching the (LAF) unit, gloves, and other operators' gowning. (b) (4) viable air monitoring was Viable Air Monitoring Device is placed on a (b)(4) within conducted within the Grade A area EMPLOYEE(S) SIGNATURE DATE ISSUED SEE REVERSE Justin A Boyd, Investigator 6/13/2025 Pratik S Upadhyay, Investigator - Dedicated OF THIS PAGE Lisa L Flores, Office of Global Policy and Strategy Employee PAGE 7 of 19 PAGES FORM FDA 483 (09/08) PREVIOUS EDITION OBSOLETE INSPECTIONAL OBSERVATIONS

DEPARTMENT OF HEALTH AND HUMAN SERVICES

	TH AND HUMAN SERVICES
FOOD AND DRUG DISTRICT ADDRESS AND PHONE NUMBER	G ADMINISTRATION  DATE(S) OF INSPECTION
12420 Parklawn Drive, Room 2032	6/2/2025-6/13/2025*
Rockville, MD 20857	FEI NUMBER
ROCKVIIIE, FID 20037	3002809586
	11700 April 60 Palica (1177 April 2017 California)
NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED	
UNIV 185 15 500000 540 00000 1 10 AG 10000	
Virang Shah, Vice President - Operations	
FIRM NAME	STREET ADDRESS
Sun Pharmaceutical Industries Ltd.	Halol - Baroda Highway
CITY, STATE, ZIP CODE, COUNTRY	TYPE ESTABLISHMENT INSPECTED
Halol, Gujarat, 389350 India	Drug Manufacturer
White activity of the control of the property of the property of the control of t	Control and Contro
where the exertic correction tools the Crade	A area where the
	nection took place for
Media Fill	(b) (4)
2. The qualification process for aseptic personnel d	oes not specify required activities to be performed

- 2. The qualification process for aseptic personnel does not specify required activities to be performed during a media fill to demonstrate competency. Multiple operators are responsible for setup activities during media fills and routine production, but the specific activities performed by each operator are not documented. As a result, an operator may be qualified to conduct the aseptic connection without ever having performed this task during a media fill.
- 3. During Block (4) vial line media fills:
- a. Media fill procedures do not ensure there are media filled vials present on the line during qualification of interventions that would not require the line to be cleared during commercial batches.
- b. There are breaks in which no production personnel are present and there are no media filled vials present on the line, but this is considered part of the media fill filling duration. During routine commercial manufacturing, enough operators will remain in the room for continuous operations.
- 4. Smoke studies of the aseptic connection and loading of stopper bags on the Block include one person performing the activity. During batch (US market) on June 4, 2025, there were below the people performing these activities.

## **OBSERVATION 3**

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

1. Investigations of environmental and personnel monitoring excursions frequently fail to identify root

EMPLOYEE(S) SIGNATURE		DATE ISSUED
Justin A Boyd, Investigator Pratik S Upadhyay, Investigator - Dedicated Drug Cadre Lisa L Flores, Office of Global Policy and Strategy Employee	Justin A Boyd Investigator Signed 6y: 2000359696 Days Signed: 06-13-2025 X	6/13/2025
**************************************	9.	100 000

FORM FDA 483 (09/08) PREVIOUS EDITION OBSOLETE INSPECTIONAL OBSERVATIONS PAGE 8 of 19 PAGES

	DEPARTMENT OF HEAL FOOD AND DRU	TH AND HUM. G ADMINISTRAT			
DISTRICT ADDRESS AND PHON	IE NUMBER		DATE(S) OF INSPECTION		
Rockville, MI	vn Drive, Room 2032		6/2/2025-6/13/2025*		
NOCKVIIIE, III	20037		3002809586		
NAME AND TITLE OF INDIVIDUA	L TO WHOM REPORT ISSUED				
Management State of the Company of t	Vice President - Operations				
FIRM NAME	T T	STREET ADDRESS	Danada III abaasa		
Sun Pharmacet	tical Industries Ltd.	TYPE ESTABLISHM	Baroda Highway		
Mar 11767 3	at, 389350 India		ufacturer		
spore forming a example:  a. The vial line injection for the environmental r	in Block and associated US market. Since January 2024 the monitoring excursions, 30 instances Grade B alert level results.	effective con  (b) (4) have been ere have been	rrective and preventive ac en used for aseptic filling en 3 batch rejections relat	of (b) (4)	
and related to enviro	in Block has been used for asep Injection for the US market. Since in Insertion for the US market. Since in the US market in the US market. Since in the US market in the US	January 202	4 there have been 2 batcl		
From January 2 excursions, 23 i					
d. The vial line in Block was used for aseptic filling of in January 2024-February 2025 market, until manufacturing stopped in this area in February of 2025. From January 2024-February 2025 there was one batch rejection related to environmental monitoring excursions, 15 instances of Grade A recoveries, 37 Grade B action level excursions, and 34 Grade B alert level results.					
filled for the US	investigations from the Block with vision of the Block were not thorough to idente the included:			is aseptically ce and associated	
SEE REVERSE OF THIS PAGE	EMPLOYEE(S) SIGNATURE  Justin A Boyd, Investigator  Pratik S Upadhyay, Investig  Drug Cadre  Lisa L Flores, Office of Gl  Strategy Employee	ator - Dec	Signed By: 2000358686 Date Signed: 06-13-2025 X 13:11:34	DATE ISSUED 6/13/2025	

FORM FDA 483 (09/08)

PREVIOUS EDITION OBSOLETE

PAGE 9 of 19 PAGES

	DEPARTMENT OF HEAL' FOOD AND DRUG				
DISTRICT ADDRESS AND PHON			DATE(S) OF INSPECTION		
Rockville, MI	vn Drive, Room 2032 ) 20857		6/2/2025-6/13/2025* FEI NUMBER		
1.00.EVIIIC/ III	20007		3002809586		
NAME AND TITLE OF INDIVIDUA	AL TO WHOM REPORT ISSUED				
Management was a compared where	Vice President - Operations				
Sun Pharmaceu	itical Industries Ltd.	Halol -	Baroda Highway		
CITY, STATE, ZIP CODE, COUN	TRY	TYPE ESTABLISHME			
Halol, Gujara	at, 389350 India	Drug Man	ufacturer		
failed vials iden Staphylococcus were spread acr The investig sources.  One of the prob improperly	lure investigation 1499853 for batch tifying <i>Pseudomonas stutzeri</i> (2 via <i>Micrococcus</i> , and/or <i>Kocuria</i> in the loss (4) different (b) (4) on gation did not thoroughly evaluate the lable causes identified during the investigation with the laboratory of the labor	ls), Bacillule other con  (b)(4) an nese organis vestigation vermoved du	taminated units. The cond one vial from a sms and whether they can was improper uring routine batches and	taminated vials n (b)(4) me from different	
fallen vials that investigation an	on describes simulation of occurred when improperly d media fill video show the improperly loading area at the time of these in	<sup>(b) (4)</sup> vials	were present. However, vials identified w		
The (b) (4) from The cont occurring during	aminated vials were not reconcilable this nearly period.	l on e with the a	from (b)(4) to approximate time and the	activity at	
Review of selected portions of the media fill videos showed additional interventions that were not identified in the media fill investigations where intervention procedures were not followed. These included reaching the glove over sterile stoppers and the stopper track/bowl during interventions to remove stopper jams and change air plate.					
b. Media fill failure investigation 1499853 for batch (13 contaminated vials) and 1545028					
SEE REVERSE OF THIS PAGE	EMPLOYEE(S) SIGNATURE  Justin A Boyd, Investigator  Pratik S Upadhyay, Investigator  Drug Cadre  Lisa L Flores, Office of Glo  Strategy Employee		Signed By: 2000358686 Date Signed: 06-13-2025 X 13:11:34	DATE ISSUED 6/13/2025	
	20. 050400 00 000 0000		•	1,500	

FORM FDA 483 (09/08)

PREVIOUS EDITION OBSOLETE

PAGE 10 of 19 PAGES

	DEPARTMENT OF HEAL FOOD AND DRUG	TH AND HUMAN SERVI ADMINISTRATION	CES	
DISTRICT ADDRESS AND PHON	NE NUMBER	DATE(S) OF		
Rockville, MI	vn Drive, Room 2032 0 20857	FEI NUMBER		
1.00AVIIIC/ III	2000,	30028	09586	
NAME AND TITLE OF INDIVIDUA	AL TO WHOM REPORT ISSUED	1		
Annahar and the same and the sa	Vice President - Operations			
FIRM NAME	itical Industries Ltd.	street ADDRESS Halol - Baroda	Highway	
CITY, STATE, ZIP CODE, COUN		TYPE ESTABLISHMENT INSPECTED		
Halol, Gujara	at, 389350 India	Drug Manufactu	rer	
for batch during unloadin	(2 contaminated vials) both id	entified a possible ontamination.	root cause of abnor	nal events
Vials are stoppe	ered			(b) (4)
	before capping. The cor	taminated vials we	re capped and were	integral vials.
	on did not evaluate whether the	was appropriat	e to reject vials that	were not
properly stoppe	red before capping.			
A 1 1747 11	1: 1 4: C (b) (4) T :	1 111	71 1 1 1 7 7	1
	rocess validation of Inj		not include data to o	
STATE OF THE PERSON OF THE PER	s, moisture, or oxygen between the	(b)(4) stopperi	ng and capping.	igless of
inicroorganisms	s, moisture, or oxygen between the	stopperi	ing and capping.	
c. Media fill fai	lure investigation 1498591 for batch	identi	fied gross contamin	ation of the
	th Bacillus cereus on June 1, 2023.			
	the aseptic connection as a probable			
implementation	of sterile to sterile connections to re	educe the risk from	the manual aseptic	connection on
	Block (4) This preventive action was	not extended to as	eptic filling lines in	other blocks
to evaluate the	use of sterile to sterile connections.			
2 Vous Quality	Unit did not investigate out of tran	l tast regults of an	nnual stability bata	h at lang tarm
	Unit did not investigate out of trend on and allowed failing batches of a			
example,	on and anowed failing batches of a	arug product to ren	nam m me OS mark	et. Poi
example,				
a. According to	section 5.3.2.2 of your Out of Trend	d (OOT) investigat	ion procedure SOP(	)27983,
	ffective date: 29-Apr-2024 "For eac		_	
	tability station, perform regression			
	and using available statistical softwo			
12th month inte	rval and then subsequently all statio	ons need to be mon	itored". However, v	ve observed
	FMR OVER SIGNATURE			DATE ISSUES
SEE REVERSE	Justin A Boyd, Investigator		1	6/13/2025
OF THIS PAGE	Pratik S Upadhyay, Investiga	ator - Dedicated	Justin A Boyd Investigator Signed By: 2000358686	nerva Sourcement var Sou, prillippis del Soulie
	Drug Cadre Lisa L Flores, Office of Glo	hal Doling and	Nyeetigator Signed By: 2000359696 Date Signed: 06-13-2025 X 13:11:34	
	Strategy Employee	mai rolley and		
FORM FDA 483 (09/08)		PECTIONAL OBSERVA	TIONS	PAGE 11 of 19 PAGES

	DEPAR		HEALTH A		N SERVICE	s	
DISTRICT ADDRESS AND P				Ī	DATE(S) OF INSPECTION		
Rockville,	awn Drive, Room 203	2,		-	6/2/2025-6/13/2025* FEI NUMBER		
100KVIIIC)	110 2000 /				3002809	586	
NAME AND TITLE OF INDIV	IDUAL TO WHOM REPORT ISSUED						
Manual Company of the	, Vice President -	Operati					
FIRM NAME	eutical Industries	T+d	45565	TOT - T	Baroda H	liahuau	
CITY, STATE, ZIP CODE, CO		пса.	20	ESTABLISHME		iigiiway	
Halol, Guja	rat, 389350 India		Dr	ug Manı	ıfacture	er	
that your Quality Unit allowed annual stability batch of number: to remain in distribution and available to the US customers when this batch continued to show increasing trend and potential for failure for the highest unknown impurity and total unknown impurities from the initial (0) to nine (9) month stability timepoint as follows:				is batch			
		Long ter	rm stabili	ity time	points	7	
Test	Specification Limit		)/Test Re		**		
	The state of the s	0	3	6	9		
	Highest Unknown	(b) (4) <sub>0/0</sub>	(b) (4) <sub>0/0</sub>	(b) (4) <sub>0/0</sub>	(b) (4) <sub>0/0</sub>	7	
Related	Impurities: NMT (6) (4) %	%	%	<b>%</b>	%		
Substances	Total Unknown			17.5			
(By HPLC)	Impurities: NMT	(b) (4) 0/ <sub>0</sub>	(b) (4) 0/ <sub>0</sub>	(b) (4) 0/ <sub>0</sub>	(b) (4) <sub>0/0</sub>		
	(b) (4) <u>%</u>						
Your Quality Unit performed no OOT investigation to investigate the increasing trend of highest unknown impurity, and total unknown impurities until 9 month stability timepoint for "Tablets "mg, batch number: This batch failed to meet the specification limit for total unknown impurities at 18 month stability time point. Result: "Well of the specification of this batch of the specification of this batch of the same month i.e."  Your Quality Unit performed no OOT investigation to investigate the increasing trend of highest unknown impurities until 9 month stability timepoint for this batch failed to meet the specification of this batch to meet the specification of this batch of the specification (OOS) investigation PR ID: 1465137 on the specification of this batch of the specification of the specification of this batch to the specification of the specification of this batch to the FDA on the same month i.e. The specification of the specificat							
SEE REVERSI OF THIS PAGI		, Inves	stigato			Justin A Boyd Investigator Signed By: 2000358686 Date Signed: 06-13-2025 X 13:11:34	6/13/2025

FORM FDA 483 (09/08)

PREVIOUS EDITION OBSOLETE

PAGE 12 of 19 PAGES

#### DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION DISTRICT ADDRESS AND PHONE NUMBER 6/2/2025-6/13/2025\* 12420 Parklawn Drive, Room 2032 Rockville, MD 20857 3002809586 NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED Virang Shah, Vice President - Operations FIRM NAME STREET ADDRESS Sun Pharmaceutical Industries Ltd. Halol - Baroda Highway CITY, STATE, ZIP CODE, COUNTRY TYPE ESTABLISHMENT INSPECTED Halol, Gujarat, 389350 India Drug Manufacturer

Test	Specification Limit	Long term stability time points (months)/Test Results				
		12	18	22*	24	
Related	Highest Unknown Impurities: NMT (b) (4)%	(b) (4) <sub>%</sub>	(b) (4) <sub>0/0</sub>	(b) (4) %	(b) (4) 0/ <sub>0</sub>	
Substances (By HPLC)	Total Unknown Impurities: NMT	<sup>(b) (4)</sup> %	(b) (4) %	(b) (4) <sub>9/0</sub>	(b) (4) <sub>0/0</sub>	
* (b) (4)	station since the batch was	(b)	on stab	oility with	ı a delay	

- b. Your Out of Trend (OOT) investigation procedure SOP027983, Version: 7.0, Effective date: 29-Apr-2024 is deficient as there is no criteria established for investigating impurities that are equal to or below %. According to your General Manager of QA, laboratory investigation in the event of impurities equal to or below % is left to the discretion of discussion between QA and QC whether to initiate or not to initiate investigation. We observed the following issues with these practices:
- i. There is no documented record of the discussions between QA and QC maintained indicating the rational for not initiating investigation in the event of out of trend test results for total unknown impurities and individual known impurities.
- ii. There is no mention of discussions between QA and QC being the formal means of decision making to initiate investigation in your Out of Trend (OOT) investigation procedure.

## **OBSERVATION 4**

Equipment used in the manufacture, processing, packing or holding of drug products is not of appropriate design to facilitate operations for its intended use.

SEE REVERSE Justin A Boyd, Investigator	1	6 14 0 10 00 5
OF THIS PAGE  Pratik S Upadhyay, Investigator - Dedicated Drug Cadre Lisa L Flores, Office of Global Policy and Strategy Employee	Justin A Boyd Investigator Signed By: 200035866 Date Signed: 06-13-2025 X 13:11:38	6/13/2025

FORM FDA 483 (09/08) PREVIOUS EDITION OBSOLETE INSPECTIONAL OBSERVATIONS PAGE 13 of 19 PAGES

	DEPARTMENT OF HEA FOOD AND DR	LTH AND HUM UG ADMINISTRAT				
DISTRICT ADDRESS AND PHON	NE NUMBER		DATE(S) OF INSPECTION			
12420 Parklawn Drive, Room 2032 Rockville, MD 20857			6/2/2025-6/13/2025* FEI NUMBER			
ROCKVIIIC, III	20037		3002809586			
NAME AND TITLE OF INDIVIDUA	AL TO WHOM REPORT ISSUED		1			
A TO SHOULD BE A S	Vice President - Operations					
Sun Pharmace	ıtical Industries Ltd.	Halol -	s Baroda Highway			
CITY, STATE, ZIP CODE, COUN		TYPE ESTABLISHMENT INSPECTED				
Halol, Gujara	at, 389350 India	Drug Manufacturer				
particulate continuo on the findentified similar metal particulate Root cause: Impact CAPA: Revision Black particulate Root cause: Was CAPA: Replace CAPA: Replace	amination in alling machine. The risk assessment ar equipment used in Block articulate contamination instances of ml manufactured on line and articulate contamination instances of ml manufactured on line are containing are contained are c	Injection It of equipment of equipment of equipment of equipment of equipment of the equipm	(rejected) (b) (4) (rejected) (b) (4) (rejected) (rejected) (rejected) (rejected) (rejected) (rejected)			
		dentified in l	batch (rejected) during repeat			
4. Investigation Black particulat Root cause: Scr CAPA: Discard	atches on (b)(4) and (b)(4) l	in batch	friction between (b)(4) and (b)(4) and replacing with			
SEE REVERSE OF THIS PAGE	Drug Cadre Lisa L Flores, Office of G. Strategy Employee	gator - De	Signed By: 2000359696 Date Signed: 06-13-2025 X 13:11:34			

	DEPAR	TMENT OF HE FOOD AND D				S			
12/120 Darklas		22			DATE(S) OF INSE		/2025*		
Rockville, M	clawn Drive, Room 2032 MD 20857			6/2/2025-6/13/2025* FEI NUMBER					
1.00.1.1110, 111	2000,				3002809	586			
1									
NAME AND TITLE OF INDIVIDUA	AL TO WHOM REPORT ISSUED								
Virang Shah,	Vice President -	Operation	ıs						
FIRM NAME	1 + 1 + 1 1 + 1	+ 1 . 1		ADDRESS	, ,				
CITY, STATE, ZIP CODE, COUN	utical Industries	Lta.	20	Halol – Baroda Highway					
Halol, Gujara	at, 389350 India		Drue	g Manu	facture	r			
l .									
Throughout this	s series of investigation	ns, manufa	cturing a	nd filli	ng of	(6)		ued. Batches of	
(b) (4) W6	ere filled on line (4) a	nd released	to the U	S mark	et includ	le but are	e not lim	ited to:	
	and the state of t								
Name of the Produc	et	Lot	SFG	Quantity	Mfg.Date	Exp.Date	Country 3	Release	
		No/Batch No	Batch No					late	
		1.	Je	l.:	<u> </u>	40	[2]	(6) (4)	
								_	
								_	
								_	
								_	
								_	
								_	
		45.70							
Replacement w	ith					eptembe	er 2024, o	despite the	
same root cause	attributed to	(6) (4)	in Block	(b) (4) in	2020.				
				_					
OBSERVATIO	N 5								
Your firm failed	l to establish adequate	written pro	ocedures	for pro	duction	and prod	ess cont	rols designed to	
assure that the d	drug products have the	e identity, st	rength, 1	purity, a	and quali	ity that th	hey are p	ourported or	
represented to p	ossess.								
1. Multiple blac	k particles, difficult to		pearing	after a	period o	f settling	g, resulte	d in the	
rejection of four	r	(b) (4) Injection	on batche	es				(b) (4)	
(b) (4) The	source of these partie	cles was det	termined	l to be f	illing eq	uipment	. The firm	n failed to:	
l .									
								16-10-6 9790-0 9860-0 93	
SEE REVERSE	Justin A Boyd, I	nvesticat	or		ĩ			6/13/2025	
OF THIS PAGE	Pratik S Upadhya			- Dedi	cated	Justin A Bo Investigator		0/13/2023	
	Drug Cadre		AN - COCK- GRADEL			Signed By: Date Signe X 13:11:34	2000358686 d: 06-13-2025		
	Lisa L Flores, O		Global	Policy	and and				
	Strategy Employe	e							

FORM FDA 483 (09/08)

PREVIOUS EDITION OBSOLETE

PAGE 15 of 19 PAGES

		TH AND HUMAN SERVICE ADMINISTRATION	ES		
DISTRICT ADDRESS AND PHON	E NUMBER	DATE(S) OF INS	DATE(S) OF INSPECTION 6/2/2025-6/13/2025*		
Rockville, MI	n Drive, Room 2032 0 20857	FEI NUMBER	Residence in the Control of the Cont		
		300280	9586		
NAME AND TITLE OF INDIVIDUA					
Virang Shah,	Vice President - Operations	STREET ADDRESS			
Sun Pharmaceu	tical Industries Ltd.	Halol - Baroda D	Highway		
CITY, STATE, ZIP CODE, COUNT Halol, Gujara	nt, 389350 India	TYPE ESTABLISHMENT INSPECTED  Drug Manufacture	er		
a. Change the vi	isual inspection process to avoid "je	rking" or shaking the	e inspection vial until after the		
vial has been ch	ecked for sedimentation of black pa	rticles.			
A STATE OF THE PARTY OF THE PAR	visual inspection (VI) procedure (So				
challenge kit (K defects.	it ID # last upda	ated 26-Feb-2025) to	include these newly identified		
defects.					
c Include instru	actions in the current VI procedure f	or detecting or class	ifying these small difficult-to-		
see particles.	etions in the entrent v1 procedure i	of detecting of class.	rying these sman, difficult-to-		
see partieres.					
d. Include samp	les representative of these newly ide	entified defects in the	e challenge kit used for training		
7.	visual inspectors.				
1					
e. Provide docu	mented evidence of retraining or red	<sub>l</sub> ualification of visua	l inspectors to detect this new		
defect type.					
	ed allowable reject percentages for	-			
are not supported by the individual tablet weight data and do not consider other parameters, including					
hardness. This resulted in the approval of wider ranges that could permit the acceptance of tablets that would otherwise be rejected. For example:					
would otherwise be rejected. For example.					
a. For (b)(4) mg tablets, the (b)(4) weight control study used batch (b)(4) for					
calculating the lower tolerance weight tablets with a compression force of (b)(4) kN. This was used to					
calculate the low reject rate of not more than 60.44 %. The in-process data showed 40 of 40 individual tablets					
were below the weight minimum of mg. Hardness data was not considered in the study, but of					
individual tablets were below the hardness minimum of (b)(4) kp.					
	EMPLOYEE(S) SIGNATURE		DATE ISSUED		
SEE REVERSE	Justin A Boyd, Investigator		6/13/2025		
OF THIS PAGE	Pratik S Upadhyay, Investiga	ator - Dedicated	Justin A Boyd		
	Drug Cadre Lisa L Flores, Office of Glo	abal Doling and	Investigator Signed By: 2000358666 Date Signed: 06-13-2025 X 13:11:34		
	Strategy Employee	war rorrey and			
FORM FDA 483 (09/08)	×20.00	PECTIONAL OBSERVATION	ONS PAGE 16 of 19 PAGES		

	DEPARTMENT OF HEAL FOOD AND DRUG			ES	
DISTRICT ADDRESS AND PHON	IE NUMBER		DATE(S) OF INSPECTION 6/2/2025-6/13/2025*		
Rockville, MI	vn Drive, Room 2032		6/Z/ZUZ FEI NUMBER	25-6/13/2025*	
1.00.1.1110/ 111	2000,		3002809	9586	
NAME AND TITLE OF INDIVIDUA					
Virang Shah,	Vice President - Operations				
L-100	itical Industries Ltd.	STREET ADDRESS			
CITY, STATE, ZIP CODE, COUNT		Halol - Baroda Highway  TYPE ESTABLISHMENT INSPECTED			
Halol, Gujara	at, 389350 India	Drug Man	ufacture	er	
				ndividual tablets o	exceeded the
b. For the lower tolerance weight limit with a compression force of b(4) kN on the used to calculate the lower reject rate limits in the batch record of not more than in-process data for had b(4) of individual tablets below the minimum tablet weight of mg. Hardness data was not considered in the study, but showed b(5) individual tablets below the tolerance limit of b(4) kp. The considered in the study individual tablets below the minimum tablet weight of considered in the study individual tablets below the tolerance limit of considered in the study individual tablets below the tolerance limit of considered in the study individual tablets below the tolerance limit of considered in the study individual tablets below the tolerance limit of considered in the study individual tablets below the tolerance limit of considered in the study individual tablets below the tolerance limit of considered in the study individual tablets below the tolerance limit of considered in the study individual tablets below the tolerance limit of considered in the study individual tablets below the tolerance limit of considered in the study individual tablets below the tolerance limit of considered in the study individual tablets below the tolerance limit of considered in the study individual tablets below the tolerance limit of considered in the study individual tablets below the minimum tablet weight of considered in the study individual tablets below the minimum tablet weight of considered in the study individual tablets below the minimum tablet weight of considered in the study individual tablets below the minimum tablet weight of considered in the study individual tablets below the minimum tablet weight of considered in the study individual tablets below the minimum tablet weight of considered in the study individual tablets below the minimum tablet weight of considered in the study individual tablets below the minimum tablet weight of considered in the study individual tablets below the minimum tablet weight of considered in the stu					
OBSERVATION 6 Laboratory controls do not include the establishment of scientifically sound and appropriate test procedures designed to assure that drug products conform to appropriate standards of identity, strength, quality and purity.					
The procedure SOP028225 relating to the transfer of analytical test methods from your offsite facilities (Transferring Unit (TU)) to your Quality Control Laboratories at the site (Receiving Unit (RU)) are deficient. According to section 5.6.6.3 "Direct Transfer - Two-Way Approach" of SOP028225, Analyst from TU analyzed sample at RU laboratory utilizing the same equipment, reagents, reference standards, and HPLC column that were later utilized by Analyst of your RU laboratory. There is no variable involved in analysis conducted by both the Analysts to ensure transfer of method is accurate and reliable. Your transfer of analytical methods resembled like analyst qualification and retest analysis that normally involves the use of same sample, reagent, equipment, column, and reference standard. This was observed relating to the transfer of the following analytical test procedures:					
1. Product:	(b) (4) I	njection (6)	mg/mL,	(*) mL and (*) mL,	Test: Related
SEE REVERSE OF THIS PAGE	Justin A Boyd, Investigator Pratik S Upadhyay, Investigator Drug Cadre Lisa L Flores, Office of Glo Strategy Employee		Andrew Constitution Care	Justin A Boyd Investigator Signed By: 2000358666 Date Signed: 06-13-2025 X 13:11:34	DATE ISSUED 6/13/2025

FORM FDA 483 (09/08)

PREVIOUS EDITION OBSOLETE

PAGE 17 of 19 PAGES

		UG ADMINISTRATI	ON			
12/120 Parklas	rict address and phone number 420 Parklawn Drive, Room 2032		DATE(S) OF INSPECTION 6/2/2025-6/13/2025*			
	lle, MD 20857		FEI NUMBER			
			3002809586			
NAME AND TITLE OF INDIVIDUA						
Virang Shah,	Vice President - Operations	STREET ADDRESS				
Sun Pharmace	utical Industries Ltd.	Halol -				
CITY, STATE, ZIP CODE, COUN	TRY	TYPE ESTABLISHMENT INSPECTED				
Halol, Gujara	at, 389350 India	Drug Manufacturer				
Substances by I	HPLC. AMT Report No.: CAL/AM	ITR/17/002/0	00			
2. Product:	(b) (4) Tablets. (b) (4) mg and (b) (4) m	g, Test: Rela	ted (b) (4) Impurities	by HPLC.		
	HPLC, and Assay by HPLC. AMT		•			
**************************************		20000	// // // // // // // // // // // // //			
3. Product:	<sup>(b) (4)</sup> Tablets <sup>(b)</sup> mg			<sup>(b) (4)</sup> USP, Test:		
Residual Solver	nt Method III by GC, AMT Report	No.: CAL/A	MTR/17/0231/00			
	(b)(4) - 1.1 (b)(4) (b)(4)		(h)(4)			
	Tablets, 60(4) mg and 60(4) m			HPLC, Related		
Substances by I	HPLC, Residual Solvent by GC, Al	MT Report N	lo.: AM18-09.19/TR/00.			
OBSERVATIO	N 7					
Continue and Conti	utensils are not maintained at appr	onriate inter	vals to prevent malfunctio	ns and		
	hat would alter the safety, identity,	1 To 1	-			
		outungun, qui	and or parity or and aring	Product.		
On 12-Jun-2025	5, we observed (b)(4) like liqu	uid dripping	from the cracks of the ceil	ing of your 2 to		
	bility chamber ID: QCC-587. The		nt that covered the cracks			
areas appeared	broken and missing sealant. We als					
	ack to brown to reddish and off-wh					
	these colonies on the top of stabilit					
inside this stabi	lity chamber. This stability chambe	er is used for	the storage of sterile	drug		
products for the	US and other than the US markets	š.				
ODGEDYATE	AT O					
OBSERVATIO		do 000001-4-	information relative to the	neodustia1		
control of each	on and control records do not include	de complete	miormation relating to the	production and		
control of each	oatch.					
The procedure t	for documenting visual inspection	results during	media fills is inadequate	to ensure the		
The procedure I	or decumenting visual inspection i	cours during	5 media imo 19 madequate	to ensure the		
000 000	EMPLOYEE(S) SIGNATURE		i i	DATE ISSUED		
SEE REVERSE OF THIS PAGE	Justin A Boyd, Investigator Pratik S Upadhyay, Investig		dicated Justin A Boyd	6/13/2025		
OF THIS FAGE	Drug Cadre	,ucoi Dec	ITCACECI Investigator Signed By: 2000358686 Date Signed: 06-13-2025 X 13:11:34			
	Lisa L Flores, Office of Gl	lobal Polic		-		
	Strategy Employee					
FORM FDA 483 (09/08)	PREVIOUS EDITION OBSOLETE IN	NSPECTIONAL O	DESERVATIONS	PAGE 18 of 19 PAGES		

DEPARTMENT OF HEALTH AND HUMAN SERVICES

# DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION DISTRICT ADDRESS AND PHONE NUMBER 12420 Parklawn Drive, Room 2032 6/2/2025-6/13/2025\* Rockville, MD 20857 3002809586 NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED Virang Shah, Vice President - Operations FIRM NAME STREET ADDRESS Sun Pharmaceutical Industries Ltd. Halol - Baroda Highway CITY, STATE, ZIP CODE, COUNTRY TYPE ESTABLISHMENT INSPECTED Halol, Gujarat, 389350 India Drug Manufacturer accuracy and integrity of batch records. eff. 17-Mar-2025 and subsequent interview, it was observed During the review of media fill that the (b)(4) labels used to record initial visual inspection results were discarded after the results were transcribed into the batch record. The firm's Standard Operating Procedure for Visual Inspection of Media Fill Containers (SOP032025, v. 2.0, eff. 26-Feb-2024) does not require the retention of these (6)(4) labels or provide an alternative method for verifying the accuracy of transcribed data. In addition, there is no documented second-person verification process to ensure the accurate transfer of inspection results from the (b) (4) labels to the batch record.

## \*DATES OF INSPECTION

6/02/2025(Mon), 6/03/2025(Tue), 6/04/2025(Wed), 6/05/2025(Thu), 6/06/2025(Fri), 6/09/2025(Mon), 6/10/2025(Tue), 6/11/2025(Wed), 6/12/2025(Thu), 6/13/2025(Fri)

Lisa L Flores
Office of Global Policy and Strategy Employee
Signed By: 2001625/56
Date Signed: 06-13-2025 13:12:00

Pratik S Upadhyay Investigator - Dedicated Drug Cadre Signed By: PRATIK S. UPADHYAY -S Date Signed: 06-13-2025 13:12:35

SEE REVERSE OF THIS PAGE EMPLOYEE(S) SIGNATURE

Justin A Boyd, Investigator

Pratik S Upadhyay, Investigator - Dedicated

Lisa L Flores, Office of Global Policy and

Strategy Employee

DATE ISSUED 6/13/2025

PAGE 19 of 19 PAGES