	LTH AND HUMAN SERVIC	ES	
DISTRICT OFFICE ADDRESS AND PHONE NUMBER		DATE(S) OF INSPECTION	
US Food & Drug Administration, CDER/Inspection Assessment Branch White Oak Building 51, Room 4235, 10903 New Hampshire Avenue Silver Spring, MD		April 6, 2017-April 13, 2017	
20993, Attn: Mr. Concepcion (Coki) Cruz; Telephone 001-301-79	06-3254; FAX:	FEI NUMBER	
001-301-847-8738; E-MAIL: cderosiab@fda.hhs.gov		3004561553	
Industry Information: www.fda.gov/oc/industry NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT IS ISSUED		5727	
TO: Sanjay Deshmukh, Senior Vice President Operations Region	IV		
FIRM NAME	STREET ADDRESS		
Sun Pharmaceuticals Industries Ltd.	Survey No. 259/15		
CITY, STATE AND ZIP CODE	TYPE OF ESTABLISHMENT	INSPECTED	
Dadra, Union Territory of Dadra & Nagar Haveli 396 191, India	Finished Dosage Drug	g Manufacturer	
THIS DOCUMENT LISTS OBSERVATIONS MADE BY THE FDA REPRESENTATIONS (AND DO NOT REPRESENT A FINAL AGENCY DETERMINATION OBSERVATION, OR HAVE IMPLEMENTED, OR PLAN TO IMPLEMENT CORRESPICTION OR ACTION WITH THE FDA REPRESENTATIVE(S) DURING THE IN YOU HAVE ANY QUESTIONS, PLEASE CONTACT FDA AT THE PHONE NUMBER ADURING AN INSPECTION OF YOUR FIRM (I) (WE) OBSERVED:	N REGARDING YOUR COMPLECTIVE ACTION IN RESPONSI SPECTION OR SUBMIT THIS	LIANCE IF YOU HAVE AN OILISE TO AN OBSERVATION.	BJECTION REGARDING AN YOU MAY DISCUSS THE
Observation 1			
Laboratory records do not include a complete record of	all calculations and	graphs performed in	connection with
the test. Specifically,	an outoundrone	graphs performes	I connection
A) On April 6, 2017, during the walk-through of the qua	ality control laborato	rv. we observed a t	orn and discarded
graph and data printout sheet generated through the min	itab statistical softwa	are program for Atc	omic Absorption
graph and data printout sheet generated through the min Spectroscopy Content test for USP USP	batch	dated O	October 28, 2016.
This discarded graph and data printout sheet was not inc packet for USP batch (b) (4)	cluded in the Atomic	Absorption (b) (4)	Content test data
B) On April 6, 2017, during the walk-through of the qua	ality control laborator	rv. we observed an	uncontrolled excel
spreadsheet stored on a shared network (M: drive) folder sample content uniformity for (b)(4)	r that was used to cal	lculate (b) (4) High Performance	value of
Chromatography data from the Empower system was ex	ported into this exce	I spreadsheet to cal	culate the min
max, mean value, standard deviation and %RSD to report	ort as final results for excel spreadsheet was	sample co	ontent uniformity
C) There is no associated raw data for the sample prepar	ration of working refe	erence standard (b) (4)	lot
that was prepared on November 16, 20	16 with expiry of	4)	hat is used to
determine related substance by HPLC. The qualification	package for this wor	rking reference stan	ndard shows that
of was received at the facil	ity and (b) vials were	prepared to create	the individual
working reference standard vials that are used in the qua associated sample preparation raw data for these work weight dispensed into each of these vials.	lity control testing la	aboratory However	there is no
Observation 2			
Batch production and control records for each batch of d	mia product produce	1.1- not include an	Service Const.
reproduction of the appropriate master production or con	rug product produces	d do not include an	accurate
signed. Specifically,	tion record which wa	is checked for accur	racy, dated and
	MPLOYEE(S) NAME AND TITLE	(Print or Type)	DATE ISSUED
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DAGE	Daniel J. Roberts, Investigate ony Mathews, Investigator	or .	04/13/2017

FORM FDA 483 (9/08) PREVIOUS EDITION OBSOLETE

DEPARTMENT OF HEALTH AND HUMAN SERVICES

FOOD AND DRUG ADMINISTRATION

US Food & Drug Administration, CDER/Inspection Assessment Branch
White Oak Building 51, Room 4235, 10903 New Hampshire Avenue Silver Spring, MD
20993, Attn: Mr. Concepcion (Coki) Cruz; Telephone 001-301-796-3254; FAX:
001-301-847-8738; E-MAIL: cderosiab@fda.hhs.gov
Industry Information: www.fda.gov/oc/industry

TO: Sanjay Deshmukh, Senior Vice President Operations Region IV

NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT IS ISSUED

FIRM NAME

Sun Pharmaceuticals Industries Ltd.

Survey No. 259/15

CITY, STATE AND ZIP CODE

Dadra, Union Territory of Dadra & Nagar Haveli 396 191, India

Finished Dosage Drug Manufacturer

On April 6, 2017, we discovered the following items inside a trash cart located outside the worker change room area: a torn and discarded partially dispensed label for recording the quantity of raw material remaining after use or sampling, stock sticker label that is used to label raw materials in the warehouse, issue sticker coupon that is used to label dispensed materials for use in manufacturing. Furthermore, we also observed three (3) broken tablets and two (2) intact unaccounted for tablets inside a bag that was (b)(4) colored with one side (b)(4) with (b)(4), and plain on the other side that is consistent with the description of

Observation 3

The quality control unit lacks the authority to review production records to assure that no errors have occurred. Specifically,

On April 7, 2017, during a walk-through of the manufacturing and packaging area, we observed stacks of blank and pre-printed logbooks being retained by the production department. In addition, the stamps used for the issuance of these logbooks that are used to record manufacturing data were also retained by the production department. The Quality Unit did not have oversight for the issuance and reconciliation of these logbooks used in the manufacturing area because the issuance and reconciliation of these logbooks were being performed independent of the Quality Unit by each respective production area department head.

Observation 4

Each lot of drug product is not withheld from use in quarantine before release from the quality control unit. Specifically,

On April 7, 2017, we observed five (5) in-process intermediate stage products that were past hold-time expiry in the intermediate storage area that were comingled with other intermediate stage products that were within hold-time expiry. These intermediate stage products that exceeded the hold-time were being stored without any designation or segregation demonstrating that they were past expiry and unacceptable for use for further downstream manufacturing.

Observation 5

Written records of investigation into unexplained discrepancies or the failure of a batch or its components to meet specification do not always include Conclusion and follow up

Specifically, the following lab events were not investigated to assess the Root Cause, also no Corrective and Preventative Action (CAPA) was initiated.

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	Daniel J. Roberts, Investigator	
	Sony Mathews, Investigator	04/13/2017

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INSPECTIONAL OBSERVATIONS

Page 2 of 5

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Sun Pharmaceuticals Indus	stries Ltd.	Survey No. 259/15		
CITY, STATE AND ZIP CODE		TYPE OF ESTABLISHMENT	INSPECTED	
Dadra, Union Territory of	Dadra & Nagar Haveli 396 191, India	Finished Dosage Drug	Manufacturer	
D) (4)	2016-0382: An unidentifi tablet (4) mg (Stability S	tation 12M I T) Lot #	D) (4)	
(b) (4) PR N0#1255/8/ LE	Capsule (b) (4) ng (Stability Stati	ion 2M ACC) Lot # (b)(as observed during	the Dissolution of
• PR No#125849/ LE	2016-0387: An unidentifi			during the impurity
RS of (b) (4) tabl	et USP (b) (4) ng (Stability Station	24M LT) Lot # (b) (4)	and Lot #	(b) (4)
• PR No#126162/ LE	E-(b) (4) 2016-0392: An unidentifi			
b) (4)	tablet (b) (4) (b) (4) ng (Stability	v Station 24M I T) Lo	(b) (4)	the Assay of
• PR No#126673/ LE	2016-0394: An unidentific			the Assay of
	tablet ng (Stabili	ty Station 24M LT) L	ot # ^{(b) (4)}	
• PR No#126785/ LE	2016-0395: An unidentific	ed extraneous peak sh	ape was observed of	luring the
Dissolution of	Cansule (D) (4) mo	g (Stability Station 2M	ACC) Lot #(b) (4)	
• PR No#1267469/ L	E ^{(b) (4)} 2016-0401: Empower da	ata was missing during	the Dissolution an	d Assay test of
D) (4)	Tablets (4) mg (Stability	Station 16M LT) Lo	t # ^{(b) (4)}	
Observation 6				
Control Procedures are	not established which monitor t	he output of those ma	nufacturing process	ses that may be
responsible for causing	variability in the characteristics	of in-process and the	drug products	ACCESS OF THE STATE OF THE STAT
Specifically, the firm h	as been receiving numerous cus	tomer complaints rega	rding over fill and	under fill tablets
ranging from one to six	cty-three since 2015. The firm co	onducted investigation	s which include pro	ocess verifications
to assess the root cause	and found that the tablet (b) (4)	gives anomalies dur		process. As a
	firm has a check weigher in the			
	oture under fill or over fill tablets			
Observation 7				
Routine checking of ele	ectronic equipment is not perform	med according to a wr	itten program to en	isure proper
performance. Specifica		med decording to a m	itten program to en	sure proper
	ated errors were not captured wit	hin the quality system	For evample in t	he quality control
laboratory, audit trail e	rrors regarding electronic atomic	absorption spectrosco	ony run files savad	in the wrong
database folder and (b) (4	instrument communicat	tion errors resulting in	multiple block over	dote Glas have
A contract of the second of th	any associated incident report or	impact accomment by	the Quality Unit	data mes nave
APP		EMPLOYEE(S) NAME AND TITLE	(Print or Type)	DATE ISSUED
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PAGE SM		Sony Mathews, Investigator		04/13/2017

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			3004561553	
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CITY, STATE AND		TYPE OF ESTABLISHMENT INSPECTED		
Dadra, Union	Territory of Dadra & Nagar Haveli 396 191, India	Finished Dosage Drug Manufacturer		
regulation.	are not given training in written procedure Specifically,			
	84010/OS- ^{(b) (4)} 2016-0063 ^{(b) (4)}		P, (b) ng, Batch No:	
	bserved for Assay test which was initiated			
probable ro	ot cause identified was due to a dilution en	ror performed by the A	Analyst. As a CAPA	, the analysts were
trained for a	appropriate care for laboratory practices, st			
The second secon		ther OOS was observe		
on May 16,	2016. This OOS also concluded by recogn	nizing that the most pro	obable root cause fo	r the OOS result
was due to s	standard dilution error performed by the an	alyst. As a CAPA, the	analysts were again	n retrained for the
same trainin	ng which was conducted approximately on	e month prior for a sin	iilar issue.	2 9 7
lack of CAE	e, the following are a few examples of OO	S results that have occ	urred due to the lack	k of training or
DD# 702	A effectiveness: 99 / OS-(0)(4) 2016-0015; Analyst used imp	121		
• PR# 703	21/ OS-(b)(4) 2016-0017; Analyst used imp	proper diluent	L	
• PR# 142	287/ OS-(b) (4) 2017-0006; Analyst failed to	(b) (4)	k solution.	
• PR# 142	750/ OS (b) (4) 2017-0000, Analyst failed to	the samples for	assay test	
	750/ OS _{(b)(4)} 2017-0022; Analyst failed to	follow the standard to	igniy.	TDV.
PR# 144	243/ OS- _{(b) (4)} 2017-0004; Analyst failed to 967/ OS- _{(b) (4)} 2017-0016; Analyst used wro	ong standard salution	sting procedure (S1	P)
• PR# 151	545/ OS- 2017-0032; quote from repor	ong standard solution.	a dawa nabaasaa ast	
	8, 2017, we discovered training question a	accessments and answer	s done unknown mi	stake
questions or	the (M: drive) shared network folder. The	ese training question as	seassments are used	to evaluate the
effectivenes	s of training provided at the facility. Howe	ver the answers to the	ese training assessm	no evaluate the
to all person	nel with access to this shared network driv	e including quality co	ntrol laboratory per	connol anguard in
the testing o	f drug products as well as production person	onnel	nuoriaboratory per	somer engaged in
C) On Janua	ry 13, 2017. Quality Control employee	(6) performed the secon	ndary Quality Assur	ongo raviou for
Atomic Abs	orption Spectroscopy (AAS) testing of (b) (4)) periorined the secon	(b) (4) Granth	(b) (4)
) (4)	atch (b) (4) 36 month stability sample	assay and dissolution	reculte However th	and
	ne secondary review was not trained in Ato	mic Absorption Spect	roscopy.	ns employee that
		į	E.A.	
	EMPLOYEE(S) SIGNATURE	EMPLOYEE(S) NAME AND TITLE	(Print or Type)	DATE ISSUED
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perform. Specifically, On April 7, 2017, we observed that employees working through a common unclassified corridor where the wast facility by un-gowned personnel. In addition, we also obtainly to the outside exterior of the building and re-enterpression.	e disposal of packag oserved personnel wo	ing material is remo	eved from the
Observation 10 Warehouse procedure is not followed. Specifically On April 7, 2017, we observed lot warehouse area. However, when a query was made in the that tracks the location and status of materials located in the material was located in the wrong location at position	(b) (4) Interprise R	ocated at position (b) (c)	n the
Observation 11 Adequate lighting is not provided in all area Specifically during the walk through, we observed the filit. Approximately four (4) lights were	irm's raw material we not in a working co	arehouse RM-11 wa andition.	is not adequately
SEE REVERSE TOSE	MPLOYEE(S) NAME AND TITLE		DATE ISSUED
OF THIS PAGE Sony Mathews Investig			04/13/2017