DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION				
DISTRICT ADDRESS AND PHONE NUMBER	DATE(S) OF INSPECTION			
12420 Parklawn Drive, Room 2032	1/17/2019-1/25/2019*			
Rockville, MD 20857	FEINUMBER 3006644152			
NAME AND TITLE OF INDIVIDUAL, TO WHOM REPORT ISSUED				
Aditi Panandikar, Managing Director				
FIRM NAME	STREET ACORESS			
Indoco Remedies Limited (Plant I)	L - 14 I D C Verna Industrial Road,			
CITY, STATE, ZIP CODE, COUNTRY	TYPE ESTABLISHMENT INSPECTED			
Vasco Da Gama, Goa, 403722 India Tablet Manufacturer				

This document lists observations made by the FDA representative(s) during the inspection of your facility. They are inspectional observations, and do not represent a final Agency determination regarding your compliance. If you have an objection regarding an observation, or have implemented, or plan to implement, corrective action in response to an observation, you may discuss the objection or action with the FDA representative(s) during the inspection or submit this information to FDA at the address above. If you have any questions, please contact FDA at the phone number and address above.

### DURING AN INSPECTION OF YOUR FIRM WE OBSERVED:

#### OBSERVATION 1

There is a failure to thoroughly review any unexplained discrepancy and the failure of a batch or any of its components to meet any of its specifications whether or not the batch has been already distributed.

- 1. Investigation DEV. (4) 1-18-033 included investigation of compression force values recorded in tablet batches that did not match electronic machine data. The investigation found that production and IPQA personnel purposely recorded values within established limits even though the actual values were not within established limits. The investigation and assessment of tablet batches released to the US market was not thorough:
- A. The investigation did not determine what had caused the manufacturing process to have variability in compression force and filling weight depth outside of the ranges established during process validation and subsequent batch manufacturing. During interviews with production and IPQA personnel directly involved with recording inaccurate values, the personnel stated the need to record inaccurate values had not occurred during previously manufactured batches. Established parameters for compression force and fill depth were eliminated without identifying the source of the variability observed in recent batches that was inconsistent with previous batches.
- B. There is no assurance the automatic weight controls (AWC) was turned on and set appropriately during the commercially released batches to reject tablets with high or low compression forces.
- C. The investigation only identified compression force, which was cited during an inspection, to be recorded inaccurately. However, the fill depth (weight) settings entered by personnel into the

SEE REVERSE OF THIS PAGE	Drug Cadre	Investigator - Dedicated  Investigator - Dedicated  Investigator - Dedicated  X Date Signed: 01-25-2018 1527-08	DATE ISSUED 1/25/2019
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	DEPARTMENT OF HEAL FOOD AND DRU	.TH AND HUMAN SER' G ADMINISTRATION	VICES	
DISTRICT ADDRESS AND PHON		DATE(S)	OF INSPECTION 7/2019-1/25/2019*	
Rockville, MI			FEI NUMBER	
		3006	5644152	
NAME AND TITLE OF INDIVIDUA	LTO WHOM REPORT ISSUED			
Aditi Panandi	kar, Managing Director			
FIRM NAME		STREET ADDRESS	The state of the last	Daniel .
Indoco Remedi	es Limited (Plant I)	L - 14 I D C	Verna Industrial	коас
	i, Goa, 403722 India	Tablet Manufa	acturer	
though the value  D. Additional d  were not identif	es captured by the PLC electronices recorded in the batch record were discrepancies between the PLC or ied and further investigated. For ex	e always within the balance printouts ample:	ne established parame	eters. n batch records
i. During batch value as "on" du	the was turned "curing the check.	ff" from	and the operat	tor recorded the
ii During batch	the PLC data showed	the machine ma	in motor was not on	(b) (4)
stoppage or exp	was "disk inching" indicating the lanation was recorded in the batchere not being produced.	e machine had no	ot been performing a	s expected. No
	he filling machine parameters for faction that changes were needed.	illing depth were	made without corres	ponding data or
iv. During batch 15:05 and 15:3 the composition the composition the	the in-process check 35. These were recorded before checks for (b) (4) finished at (b) (4) the check.	the OA check d	ction personnel were ocumented at 14:58 was initially recorded	. During batch
v. The printou at th time noted in th	ts from in-process test check and the friability test e batch record for the check of	s showed errors it was not comple	recorded in the basted until	after the
	e not been established to ensure cha and documented.	anges to the auton	natic weight control o	during the batch
SEE REVERSE OF THIS PAGE	EMPLOYEE(S) SIGNATURE Justin A Boyd, Investigator Drug Cadre Rumany C Penn, Investigator Drug Cadre		Javalin A Boyd Investigator - Dwdicarred Drag Signed Sy: 2800356696 Dinle Signed: 01-25-2010 16:27:08	DATE ISSUED 1/25/2019
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INSPECTIONAL OBSERVATIONS

FORM FDA 483 (09/08)

PREVIOUS EDITION OBSOLETE

DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION					
DISTRICT ADDRESS AND PHON	D PHONE NUMBER		DATE(S) OF IN		
	Lawn Drive, Room 2032		1/17/2019-1/25/2019*		
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MAME AND TITLE OF INDIVIDUA					
	kar, Managing Director				
FIRM NAME	rkar, Managing Director	STREET ADDRESS			
Indoco Remedi	es Limited (Plant I)	L - 14 I	D C Ve	rna Industrial	Road
CITY, STATE, ZIP CODE, COUNT	TRY	TYPE ESTABLISHME	ENT INSPECTED		
Vasco Da Gama	a, Goa, 403722 India	Tablet M	lanufact	urer	
2017 <sup>(b) (4)</sup> inaccurate data.	batches were not interviewed	to evaluate	e the ex	tent of purposefu	l recording of
2. Investigation	OOS-(4) 1-18-236 was opened whe	n one sami	ole noint	of batch (b) (4)	(b) (4)
(b) (4)	was out of specification with an a	ssay value	of % c	ompared to a spec	ification of (b) (4)
%. The inve	estigation identified a sampling error				
	support the conclusion that sampli				OS result. The
	sampled without an approved "Pro		Re-Samp	ling". A <sup>(b) (4)</sup> pr	reparation of a
retest result was	used to invalidate the original OOS	S result.			
sample should h	the original sampling, the batch re have been collected. No action was			•	
for this product	or any other product.				
the appearance	3. Investigation OOS-(4) 1-18-108 was opened when (b) (4) tablet stability batch failed the appearance test for color for the 30°C(4) % RH sample at the 18-month timepoint. The investigation concluded this was expected, but does not include any data to support why this color change would be expected.				
OBSERVATIO	N 2				
i	rds do not include complete data de	rived from	all tests.	examinations and	assav
	ure compliance with established spe		-		usouj
incoessary to use	are compliance with established sp.	Delileations	and stan	ши чэ.	
1. Out of Specification (OOS) results from the QC lab on the Karl Fischer instrument QE/291 and the Autotitrator instrument QE/317 were not investigated or documented. The analysis was repeated without reporting the original OOS result and initiating investigation. The following electronic analytical records					
contained unreported OOS results without investigations:					
SEE REVERSE	EMPLOYEE(S)SKNATURE Justin A Boyd, Investigator	- Dedicat	ted	I	1/25/2019
OF THIS PAGE	Drug Cadre	Douroa		Justin A Boyd Investigator - Dedicated Drug	2,20,2015
	Rumany C Penn, Investigator	- Dedicat	ted	Cache Signed By: 2000358988 Date Signed: 01-28-2015 15:27:08	
	Drug Cadre				
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INSPECTIONAL OBSERVATIONS

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### DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION DATE(S) OF INSPECTION DISTRICT ADDRESS AND PHONE NUMBER 12420 Parklawn Drive, Room 2032 1/17/2019-1/25/2019\* Rockville, MD 20857 3006644152 NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED Aditi Panandikar, Managing Director STREET ADDRESS L - 14 I D C Verna Industrial Road

TYPE ESTABLISHMENT INSPECTED

Tablet Manufacturer

Indoco Remedies Limited (Plant I)

Vasco Da Gama, Goa, 403722 India

CITY, STATE, ZIP CODE, COUNTRY

Analytical Record	Material	Analysis and Equipment	Time of unreported OOS	Time of reported analysis
IG-0097	(b) (4)	Water Content by KF on QE/291	02 Feb 2018 at 09:14	07 Feb 2018 at 10:02
IG-0460		Water Content by KF on QE/291	15 May 2018 at 10:39	17 May 2018 at 14:30
IG-1049		Assay by Autotitrator on QE/317	29 Dec 2018 at 13:50	29 Dec 2018 at 15:00
IG-0145		Assay by Autotitrator on QE/317	07 Feb 2018 at 12:46	08 Feb 2018 at 12:38
IG-0161		Assay by Autotitrator on QE/317	21 Feb 2018 at (b) (4)	22 Feb 2018 at 10:27
IG-0358		Water Content by KF on QE/291	29 Mar 2018 at 16:21	31 Mar 2018 at 15:38
IG-0688		Assay by Autotitrator on QE/317	19 Sep 2018 at 10:33	19 Sep 2018 at 12:07
IG-0929		Water Content by KF on QE/291	25 Nov 2018 at 14:35	25 Nov 2018 at 15:08
IG-1102		Assay by Autotitrator on QE/317	04 Oct 2017 at 09:29 and 10:02	04 Oct 2017 at 10:31

\*Raw materials as part of the manufacturing process for (b) (4) products for the U.S.

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<sup>\*\*</sup>Raw material as part of the manufacturing process for products with pending applications for the U.S.

DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION				
DISTRICT ACCRESS AND PHONE NUMBER 12420 Parklawn Drive, Room 2032	DATE(S) OF INSPECTION 1/17/2019-1/25/2019*			
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Aditi Panandikar, Managing Director				
FIRM NAME	STREET ADDRESS			
Indoco Remedies Limited (Plant I)	L - 14 I D C Verna Industrial Road			
CITY, STATE, ZIP CODE, COUNTRY	TYPE ESTABLISHMENT INSPECTED			
Vasco Da Gama, Goa, 403722 India	Tablet Manufacturer			

The original weight printouts were not available and analytical records did not include any documentation of the original analysis. The instrument usage log books did not contain the record of the original analysis being conducted. Analytical records document electronic audit review of the Karl Fischer systems, but these did not detect the unreported OOS's.

- 2. Original sample weight data is not available. Weight printouts on December 9, 2017 for the first determination of RL4-0284/17 for Karl Fischer Factor Determination had a time stamp of 9:39, which is after the determination had started at 9:35.
- 3. Electronic versions of the originally integrated chromatogram are not maintained when chromatograms need to be reprocessed with changes to integration parameters. For example, the following chromatograms were reprocessed and the original electronic chromatogram is not available:
  - 3-month stability dissolution testing
  - 3-month stability related substances testing
  - 6-month stability related substances testing
  - Finished Product Assay testing
- 4. Production personnel stated weight checks are performed after adjusting fill depth (weight) parameters during the ongoing tablet compression process. Records of these checks between the batch record required in-process checks are not maintained.

## **OBSERVATION 3**

Batch production and control records do not include complete information relating to the production and control of each batch.

The person listed in the batch record in the "Done By" column for in-process checks does not perform all tests, does not record any of the data, is not always present when the data is acquired, and their name is added to the "Done By" column by the person signing the "Checked By" column.

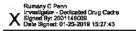
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	DEPARTMENT OF HEAL			
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Rockville, MD	20857		3006644152	
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NAME AND TITLE OF INDIVIDUA				
Aditi Panandi	kar, Managing Director	STREET ADDRESS		
	es Limited (Plant I)	ŧ .	D C Verna Industrial	Road
CITY, STATE, ZIP CODE, COUNT	RY	TYPE ESTABLISHME	VT INSPECTED	
Vasco Da Gama	, Goa, 403722 India	Tablet Ma	nufacturer	
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OBSERVATIO				
Procedures for t	he preparation of master productior	and control	records are not described	in a written
procedure.				
	ment reconciliation by the Quality			
Effective May 1	6, 2017 indicates how to issue docu			
firm does not ve			the procedure. Form F/QC	
the Precision Ba	lance Calibration Record was issue	d two copie	s on December 5, 2018 and	l two copies
again on Januar	y 9, 2019 without reconciliation of	copies. "For	mat Issual Register" for Qu	ality Control
	19 log book ID number RG/QD/23			
OBSERVATIO	ON 5			
Laboratory cont	rols do not include the establishmen	nt of scientif	ically sound and appropria	te .
	nd test procedures designed to assur			
standards of identity, strength, quality and purity.				
1. Procedures for reviewing electronic data and audit trail lack detail necessary to ensure comprehensive				
review of all data generated. Reviews of Chromeleon audit trails are not documented.				
	audit autio ai v ii si autio ai v i			
2. Specifications for in-process (b) (4) are not supported with data.				
OBSERVATIO	)N 6			
	ires for cleaning and maintenance fa	ail to include	e description in sufficient d	etail of
	nent and materials used.			
There is no rec	uirement to clean or evaluate the	air inlet di	icts of the (b) (4)	in procedure
TR2/004 "Oper	etion and Cleaning of (b) (4)	, C	n January 17, 2018 unider	
There is no requirement to clean or evaluate the air inlet ducts of the in procedure TB2/004 "Operation and Cleaning of ". On January 17, 2018 unidentified material was observed in the air inlet duct of the "clean" T2/105.				
was obscived in	the an infet duct of the clean		12/105.	
		<del> </del>	· · · · · · · · · · · · · · · · · · ·	l
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DISTRICT ADDRESS AND PHONE NUMBER 12420 Parklawn Drive, Room 2032 Rockville, MD 20857	DATE(S) OF INSPECTION 1/17/2019-1/25/2019* FEI NUMBER 3006644152			
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Vasco Da Gama, Goa, 403722 India	Tablet Manufacturer			

# \*DATES OF INSPECTION

1/17/2019(Thu), 1/18/2019(Fri), 1/21/2019(Mon), 1/22/2019(Tue), 1/23/2019(Wed), 1/24/2019(Thu), 1/25/2019(Fri)



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