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			HEALTH AND HUMAN SERVIC DRUG ADMINISTRATION	ES	
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US Food & Drug Administration, CDER/Inspection Assessment Branch White Oak Building 51, Room 4235, 10903 New Hampshire Avenue Silver Spring, MD			0.2017		
		April 26, 2017-May 10, 2017			
		on (Coki) Cruz; Telephone 001-30	1-796-3254; FAX:	FEI NUMBER	
		L: cderosiab@fda.hhs.gov		3007277149	
		fda.gov/oc/industry			
		TO WHOM REPORT IS ISSUED			
TO: Jaspreet S	ingh, Vice P	resident Quality			
FIRM NAME			STREET ADDRESS		
Intas Pharmace	uticals Ltd.		Plot No. 423/P/A, Sa	rkhej-Bavla Highway	
CITY, STATE AND Z	ZIP CODE		TYPE OF ESTABLISHMENT	INSPECTED	
Moraiya, Taluk	a Sanand, A	hmedabad, Gujarat 382 213 India	Biosimilar Sterile Dru	ug Manufacturer	
OBSERVATIONS; A OBSERVATION, OR OBJECTION OR AC YOU HAVE ANY QU	AND DO NOT R R HAVE IMPLE CTION WITH TH JESTIONS, PLE	VATIONS MADE BY THE FDA REPRESEN EPRESENT A FINAL AGENCY DETERMINATION OF PLAN TO IMPLEMENT OF THE FDA REPRESENTATIVE(S) DURING THAT IS CONTACT FDA AT THE PHONE NUMBER FIRM (I) WE OBSERVED:	ATION REGARDING YOUR COMPL DRRECTIVE ACTION IN RESPON HE INSPECTION OR SUBMIT THIS	IANCE, IF YOU HAVE AN OB SE TO AN OBSERVATION,	JECTION REGARDING AN YOU MAY DISCUSS THE
OBSERVAT	TON 1	*			
The second secon		deficient in that they do not in	nclude a complete recor	d of all data obtained	d during testing
Specifically,		deficient in that they do not in	notade a complete recoi		
A) Review of	f cource de	ta for samples analyzed as pa	et of Riocimilarity Stud	ies (b) (4) and	b) (4)
Deference Str	andard Ou	alification, generated in KC4	nlote reader software :		
			-		
		plate readings with the dates		The same of the sa	
-		ncies were observed between	7 .		
		t modified date, and/or 3) file		_	
audit trail fun	ictions fail	to capture any changes made	to each KC4 file or to	the data within each	KC4 file.
RD/AN-05-1 per COA), we medicinal pro	35 with Keere used to	qualify (b) (4) Reference thes.	as a reference Standard Batch	standard (b) (4) % RP, against	or U/mL
The issuance	and maint	enance of equipment/instrum	ent logbooks at that tim	e of Biosimilarity St	udies
and (a)	Reference	Standard Qualification of Ba	itch was	described by Rev. 0	
		13). Section 6.6 specifically r			
		6.10 specifically required info			
		instrument logbook for plate			
batch number	rs, non-seq	uential hand-written entries,	and no # of samples/pla	tes analyzed per entr	y.
~ ~		o) (4) (b	0) (4)	(b) (4)	
C) Biosimilar	rity Study"	was performed assuming batch used as a refer	% potency (label cla	ims) of the	Medicinal
Product, EU ^(b)	" В	atch used as a refer	rence standard. Each ba	itch analysis perform	ied to support
Biosimilarity	Study	was performed by R&D with	out documentation of te	st execution on Data	Recording Sheets
dated 05DEC	2011, by a	nalyst ((1)) until 19DEC201	1. Details of the cell lin	ne, reagents, and the	equipment and
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OF THIS PAGE	7-40	ad ad	Patric C. Klotzbuecher, Inve Bijoy Panicker, Investigator		05/10/2017
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US Food & Drug Administration, CDER/Inspection Assessment White Oak Building 51, Room 4235, 10903 New Hampshire A 20993, Attn: Mr. Concepcion (Coki) Cruz; Telephone 001-301-001-301-847-8738; E-MAIL: cderosiab@fda.hhs.gov Industry Information: www.fda.gov/oc/industry	venue Silver Spring, MD	DATE(S) OF INSPECTION April 26, 2017-May 10, 2017 FEI NUMBER 3007277149
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CITY, STATE AND ZIP CODE Moraiya, Taluka Sanand, Ahmedabad, Gujarat 382 213 India	TYPE OF ESTABLISHMENT Biosimilar Sterile Dr	
instrumentation used, sample preparation activities, a	nd system suitability w	vas not documented for batches

OBSERVATION 2

Appropriate controls are not exercised over computers or related systems. There was a failure to maintain a backup file of data entered into the computer or related system.

Specifically,

A) Review of the audit trails of source data files for Biosimilarity Study dentified numerous sequential plate readings as follows:

071211,raw_data.xpt

Plate (4) read (4) times from 23NOV-07DEC2011

Plate read times from 23NOV-07DEC2011

Plate read times from 25NOV-07DEC2011

• 081211,raw data.xpt

Plate (4) read(4) times from 25-08DEC2011

Plate read times on 08DEC2011

analyzed for Biosimilarity Study (6) (4)

Plate read time on 08DEC2011

Management explained that the practice of opening existing data files, renaming the data files for new analyses, and running of sample plates resulted in the audit trails capturing multiple plate runs. Successive plate runs for data files 071211,raw data.xpt and 081211,raw data.xpt are traceable to the equipment usage logbook for Equipment ID RD/AN06-224 used according to date/time, however specific Batch #'s are not documented and the quantities of samples recorded do not reconcile. Since .xpt files consist of no batch identification until source data is transcribed into .xls templates and Softmax software, and test data from that period unrelated to biosimilarity studies, including .xls templates and PLA calculations were not retained, there are no means of verifying the identity of samples in the successive plates runs.

B) According to SOP SP-QC-231-02, chromatographic sequences are to be initially saved in C:\Chem32\... filepaths with transfer settings referencing the corresponding OpenLAB server remote data path per Section 6.2.26. After analyzing samples, data is to be loaded from the appropriate OpenLAB DataStore sequence container (SC.SSIZip folder). Upon integration, individual chromatograms are to be saved according to their

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PAGE	8	Bijoy Panicker, Investigator	05/10/2017

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TO: Jaspreet Singh, Vice President Quality

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Plot No. 423/P/A, Sarkhej-Bavla Highway

CITY, STATE AND ZIP CODE

Moraiya, Taluka Sanand, Ahmedabad, Gujarat 382 213 India

STREET ADDRESS

Plot No. 423/P/A, Sarkhej-Bavla Highway

TYPE OF ESTABLISHMENT INSPECTED

Biosimilar Sterile Drug Manufacturer

respective sequence of injections (e.g. C:\Chem32\[Instrument #]\DATA\data2016\[Product Code]0000001.D, -2. D, -3.D, etc.) per Section 6.2.40. The push of data files to the OpenLAB DataStore is not automated, and required only after saving of all chromatograms as per Section 6.2.42.

The ChemStation "Guide for Administrators" explains the system's Transfer Management Settings for "Manage queue on connect" and "Cleanup on Shutdown". It states that selection of the latter option "deletes all local data and sequence files that have been stored in the central repository. Methods and sequence templates remain on the local file system."

- 1) Numerous batch analysis and system check sequence files (.S format) identified in the current, active C: \Chem32\1\SEQUENCE\ and C:\CHEM32\2\SEQUENCE\ directories have no corresponding OpenLAB DataStore sequence container or individual .S files;
- 2) Individual file metadata for these sequences is inconsistent with that of .S files of the same names, identified in OpenLAB DataStore SC.SSIZip folders corresponding to the same dates of analysis.
- C) Performance verifications of the current Chemstation/OpenLAB CDS software and OpenLAB DataStore server were documented by the Equipment Qualification Report "OpenLAB-OQ" on host IBM438 (rev. SW.01.84, eff. 25-26APR2014). Software qualification consisted of a "BIOOPENLAB" server connectivity test.

Automatic Data Transfer Settings are required to be selected in order for the "OQAdmin" user to run the server connectivity test. The "ChemStation: Settings" instruction specifically state to "Take a screenshot of the current configuration and restore it after the qualification is finished." As these settings are configured as a Data Store pre-requisite prior to qualification activities, no screenshots of the settings prior to or after the server connectivity test were recorded.

Management stated that the selection of all Automatic Data Transfer Settings is fixed by IT administrators, under the operating system "Admin" and "Administration" users, prior to approval of the system for QC laboratory use. Modifications to ChemStation administrative settings, specifically Automatic Data Transfer Settings, are not captured in ChemStation or OpenLAB system logs. The operating system's application log does not capture changes made within ChemStation Administration Tools module. And the operating system & security logs are not queriable for "Admin" or "Administrator" actions or logins.

Review of the current settings of the ChemStation Administration Tools module for Workstation 438 identified 2 of the 4 radio buttons for Automatic Data Transfer Settings unselected. Namely, the automatic transfers of source data files to the OpenLAB DataStore upon 1) data modification and 2) import after reprocessing were not enabled for Workstation 438.

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Patric C. Klotzbuecher, Investigator
Bijoy Panicker, Investigator

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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 OFFICE ADDRESS AND PHONE NUMBER US Food & Drug Administration, CDER/Inspection Assessment Branch April 26, 2017-May 10, 2017 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: FEI NUMBER 001-301-847-8738; E-MAIL: cderosiab@fda.hhs.gov 3007277149 Industry Information: www.fda.gov/oc/industry NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT IS ISSUED TO: Jaspreet Singh, Vice President Quality FIRM NAME STREET ADDRESS Intas Pharmaceuticals Ltd. Plot No. 423/P/A, Sarkhej-Bavla Highway TYPE OF ESTABLISHMENT INSPECTED CITY, STATE AND ZIP CODE Moraiya, Taluka Sanand, Ahmedabad, Gujarat 382 213 India Biosimilar Sterile Drug Manufacturer D) Chemstation/ChemStore software was used to perform all HPLC analysis thru implementation of Change Control 50455, initiated 20JUN2014. Change Control 50455 consisted of revision of each applicable standard test procedure to include the 14JUL2014 revisions of TP-QC-324 (rev. 03) for reverse phase-HPLC, TP-QC-325 (rev. 03) for size exclusion-HPLC, and TP-QC-326 (rev. 03) for (b) (4) -HPLC of(b) (4) substance, drug product, and stability testing. Impurity testing performed prior to JUL2014 lacks system/project/ sequence/injection audit trails, established user control groupings & assignments, defined user control group privileges, and system & security configurations to ensure the integrity of chromatographic data generated and processed using Chemstation/ChemStore. E) Upon request, data generated JAN-JUN2014 on workstation IBPL/QC/D165 (identified in a decommissioned IT equipment storage room), which serviced HPLCs QC-06-121/HPLC-04 and QC-06-122/HPLC-05 using legacy Chemstation/ChemStore software, was restored from backup. Review of the directories and data files from the JAN-JUN2014 restore from workstation IBPL/QC/D165 identified series of "Single Runs", each named "SNAPSHOT.D", which appeared to correspond chronologically with the last sequences run during each month. Management explained that historically "snapshots" were taken of (i.e. (b) (4) injections during test sequences for the purposes of integrating sample data (b) (4) test sequence). According to Quality Control management, this off-line processing of curve data (b) (4) Was performed to evaluate if the run was performing as expected. Acquisition of the June 2014 snapshot data file for HPLC-04 (C:\Chem32\2\DATA\IBPL-QC-D165\IBPLHPLC\1 \DATA2014\JUNE14\SNAPSHOT.D) is documented at (b) (4) hrs. on 26JUN2014. Reconciliation of this time point identified its occurrence between completion of the single "System Check" injection of sequence SCJU1426 (SCP12000001.D) at 16:35:00hrs, and the initiation of test sequence QC140626 (P12SEC0000001.D) at irs., yet there is no injection data file corresponding to the snapshot taken at (b) (4) F) On April 26, 2017, we discovered a loose spreadsheet and email attachment dated June 20, 2015 located in the IT Store Room that stated: "As per our yesterday's discussion please create a back-up for the HPLC data for the following mentioned HPLC details. Please create a back-up according to new data path and for HPLC-23 data is

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computer ID IBM172 D:\ drive." At the bottom of the spreadsheet, the document further states for computer IBM 233: "No data found once data found please copy data in computer ID IBM172 D:/ drive (most priority)". The

most priority the computer ID for HPLC-23 was IBM 233. Once you found please copy all the data in the

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20993, Attn: Mr. Concepcion (Coki) Cruz; Telephone 001-301-7 001-301-847-8738; E-MAIL: cderosiab@fda.hhs.gov	20993, Attn: Mr. Concepcion (Coki) Cruz; Telephone 001-301-796-3254; FAX:		
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system was noted as "dumped" on December 15, 2014 inspection, all of the electronic data generated on the ir associated quality incident report filed for this missing it was used for testing in process samples, peptide map chromatography analysis for (b) (4) (b) (4) (b) (4) (b) (4) (b) (4)	nstrument prior to the electronic data. The le pping, stress and oxida	dump was missing ogbook for this instr	without any rument shows that ples and (b)
OBSERVATION 3 The control records are deficient in that they are not an is checked for accuracy, dated and signed. Specifically, Section 6.2 of SP-QC-051-06, "Management of Data R to be generated by QA with a stamp identifying the ori Form F/SP-QA-040.2 for respective analysis. For in printed from SAP against the specific inspection lot per instructions on the business process used to issue DRSs instruction on the control of documents after printing.	Recording Sheet" (eff. ginal issuance. Each i rocess, batch release, a r BPP/QM/014. BPP/	15FEB2014), requires to be document of the stability studies, QM/014 provides specifications.	res general DRSs cumented on a DRSs are to be pecific
A) The issuance of each DRS on Forms F/SP-QA-040. pages not documented). Forms F/SP-QA-040.2-06 are of the issuance of documents used to record original test. B) DRSs for bioassay of Batches (b) (4) "VS" and stamped "ISSUED" with a date of 28OCT20	loose-leafed, unbound st data used in Biosim 113. Unused rows for	d sheets and there is ilarity Studies (b) (4) were generated additional entries (3)	no sequential log by QA Executive total) were not
DRS for U.S. Batch was generated by of 28OCT2013. The Form F/SP-QA-040.2-06 for U.S.	on the DRS issued for by QA Executive "VS" Batch (b) (4) Batch	U.S. (b) (4) Batch " and stamped "ISSI references an u	(b) (4) The UED" with a date
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unannotated .xls printout identifying the DRS issue requests for several analyses of several batches to include U.S.

Batch (b) (4)

Batch

Biosimilar Sterile Drug Manufacturer

- Although analysis of both batches is documented on the same DRS, there is no reference to the inclusion of Batch on the Form F/SP-QA-040.2-06 for the DRS of U.S. (b) (4) 3atch (b) (4)
- Although analysis of both batches is documented on the same DRS, there is no reference to the inclusion of CA on the Form F/SP-QA-040.2-06 for the DRS of Batch (b) (4)
- Although analysis of both batches is documented on the same DRS, there is no reference to the inclusion of US

 (b) (4) Batch (b) (4) on the Form F/SP-QA-040.2-06 for the DRS of Batch (b) (4)
- D) DRSs printed directly from SAP are copy-controlled by the # of pages identified in the footer of the original print and the inclusion of a block letter, grayscale "ORIGINAL" watermark. Management explained that the block letter, grayscale watermark appears darker in black & white photocopies than in original prints. Review of various DRSs throughout the inspection, both of documents in use and photocopied upon request to be provided as exhibits, identified negligible if any readily identifiable difference in the watermarks between original prints and photocopies.
- E) QC/CAPA/113 was initiated 10JUN2016 to capture Quality Improvement Plan (QIP) references to QC lab operations. QIP line items 156 and 178 specifically describe 1) the restriction of photocopy functions and 2) the locking of network connection boxes in various QC functional areas, specifically the QC Biochemical Section and QC Analytical/HPLC Lab, performed by IT personnel on 19NOV2016. This included the disabling of photocopy and scan functions of the Kyocera Ecosys FS-6525MFP multi-function printer located in the firm's Sample Management room. Challenging of the current copy & scan settings confirmed these IT restrictions. However,
- Attempts to scan on the FS-6525MFP noted that scanned files are assigned a default prefix: "doc";
- The FS-6525MFP's "Scan to" directory identified 3 personal folder paths, with Login User Name
 "administrator" and a 10-digit hidden password pre-filled for each, along with a single e-mail address preprogrammed;
- Review of the FS-6525MFP's "Send Job Log" (consisting of scanned files to be sent to various network folder destinations/e-mail addresses) identified 4 pages of files (consisting of 4 entries each), dated 26-28JUL2016, named in the format of "doc" followed by a 6-digit job ID, the 8-digit date (YYYYMMDD format), and the 6-digit time (HH:MM:SS format);

For example, the final 28JUL2016 entry of the Send Job Log consisted of filename "doc164386 20160728

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105332" scanned to one of the pre-programmed personal folders.

- Further review of the FS-6525MFP "System Menu/Counter***Counter Scanned Pages" identified 34,782 pages scanned for "Copy" and 15,705 pages scanned for "Others" (50,587 pages total).
- F) The firm's QC office, which is adjacent to and also utilized by the firm's Quality Head, consists of a second Kyocera multi-function printer, Kyocera Ecosys M2035dn. Similarly, management stated that both copying and scanning functions are currently disabled. Challenging of the current copy & scan settings confirmed these IT restrictions. However,
- Review of the M2035dn's "Send Job Log" identified scanned files through hrs. on 27APR2017 (filename "doc047910 20170427 (b) (4) 11");
- Further review of the M2035dn's "System Menu/Counter***Counter Scanned Pages" identified 26,643 pages copied for print and 18,640 pages copied for scan.

OBSERVATION 4

Laboratory records do not include the initials or signature of a second person showing that the original records have been reviewed for accuracy, completeness and compliance with established standards.

Specifically,

A) Review of source data for impurity testing (RP, SE, anc (B) (A) methods) of 24M and 36M real-time stability samples of a pPQ batches identified each data set being manually integrated. Steps for manual integration are described in each method's respective standard test procedure, and actual integration events applied are documented only in the processed revisions of data files. The review of analytical data generated for 24M and 36M stability timepoints of pPQ batches was described by SP-QC-082 (rev. 06, eff. 12JAN2015). Section 6.3.10 required that "Authorized-QC person/Section in charge shall check for correctness & completeness as well as calculations the respective DRS with all the raw data like chromatogram, calculation sheet..."

While requiring review of raw data for "correctness & completeness", it is silent on any specific requirement to review electronic source data or metadata. There is no documented review of the electronic source data for 24M and 36M RP-, SE-, and (b)(4) -HPLC impurity testing of PPQ batches, to include unprocessed data, the appropriate manual integration of each sample curve, or sequence/injection audit trails.

B) The current rev. 07 of SP-QC-082, eff. 01DEC2016, consists of the addition of Section 6.3.13 which requires

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Intas Pharmaceuticals Ltd. CITY, STATE AND ZIP CODE Moraiya, Taluka Sanand, Ahmedabad, Gujarat 382 213 India	Plot No. 423/P/A, Sa TYPE OF ESTABLISHMENT Biosimilar Sterile Dru		

"Trained –QC person/Section in charge/Reviewer" to "review all electronic raw data as well as audit trail in the computer system by logging in the software along with printed raw data of respective DRS". However, secondary review of the manual integration applied to RP-, SE-, and (b) (4) -HPLC impurity sample curves is not documented.

C) The stability study (Report # ASSR-G503-QC-257-01) of drug product (b)(4) mg/(b)(4) mL) under accelerated condition reports the total impurities by RP-HPLC analysis as (b)(4) 6. The acceptance criterion for the total impurities analysis is (b)(4)/6. Review of the electronic source data indicates that the chromatogram for this run sequence (G5030010-6MAT, injection date: 20-Mar-2016) was manually integrated. Section 6.3.13 of SP-QC-082-07 (effective date: 01-Dec-2016) states "Trained QC person/Section in charge/Reviewer..." to "...review an electronic raw data as well as audit trail in the computer system by logging in the software along with printed raw data of respective DRS". However there is no documentation of the secondary review of the electronic source data of the manual integration performed for this run sequence.

OBSERVATION 5

Written records of investigations into unexplained discrepancies do not always include the conclusions and follow-up and extension to other batches.

Specifically,

Incidents such as sequence interruptions or cancellations were not required to be documented until implementation of Rev. 00 of SOP SP-QC-273, "Procedure for Handling of Laboratory Incidents and Out of Specification (OOS) Results" (eff. 10OCT2016). Section 6.2 required the reporting and supervisory notification of obvious errors of analyses or incomplete testing/results with specific examples listed in Appendix B specifically identifies stopped or aborted sequences, system suitability failures, and instrument and/or software errors as examples of incidents. Section 6.15 of SP-QC-273-00 (Section 10.0 of the current SP-QC-273-01, eff. 26APR2017) explicitly requires analysts to obtain approval of the Head of QC prior to invalidating test data due to system suitability failures, aborted tests, suspended tests, etc.

A) Prior to the 10OCT2016 implementation of SP-QC-273-00 the firm's handling of OOS results was described by SP-QA-021 (rev. 08, eff. 19JAN2015). SOP SP-QA-021 consisted of no requirements for documentation of laboratory deviations or incidents which did not result in OOS results nor secondary approval of the invalidation of test data due to aborted, interrupted, or incomplete sequences. Management further stated that at that time no

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		EALTH AND HUMAN SERVICE DRUG ADMINISTRATION	ES	
DISTRICT OFFICE ADDRESS AND PHONE NUMBER 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		DATE(S) OF INSPECTION April 26, 2017-May FEI NUMBER 3007277149		
	OF INDIVIDUAL TO WHOM REPORT IS ISSUED		1	
TO: Jaspreet	Singh, Vice President Quality			
FIRM NAME		STREET ADDRESS		
Intas Pharmac	euticals Ltd.	Plot No. 423/P/A, Sar		
CITY, STATE AND		TYPE OF ESTABLISHMENT		
Moraiya, Talu	ka Sanand, Ahmedabad, Gujarat 382 213 India	Biosimilar Sterile Dru	ig Manufacturer	
	nterrupted and/or aborted tests. system suitability failure was obing/mL) during SE-HPLC testing of	oserved for %RSD of 1		
10MAR201 • calculated • hard-copy second QC I • there is no sheets • the sequen There is no	7. The DRS request for re-analysis was s 7, yet totals of the original data set were not pre prints of chromatograms and the compile Lab Supervisor until 15MAR2017; audit trail function or documented histori ce audit trail for the original data set ident documentation of QC lab management ve onn, prior to authorization of the re-analys	epared until 10MAR20 d calculation sheet wer des of initial and final, of tifies no secondary revirifying the SST failure.	17; e not documented compiled revisions iew of source, elec	as checked by a of .xls calculation stronic data.
prior to SOF (OOS) Resu For example explains that (b) (4) of determined l reanalysis pl found within acceptable re	but the hypothetical root cause was determined an was proposed testing samples in (b) (4) a specification. The original OOS result we etest were reported for the sample. OOS 70085 that was closed on October 2	andling of Laboratory I 8, 2017 for (b) (4) w, it was observed that ecification (b) (4) (6) (4) ation. The assignable remined to be method varusing (b) (4) was then invalidated and	Drug Substance (b) (estimated potency) of stated potency oot cause for the Ciation that caused ferent analysts. The the final reported	of Specification of Plate(4) is of Plate(4) is of However, the OS result was not the OOS result. A e retest results were
SEE REVERSE OF THIS PAGE	5212 1044 2017	Daniel J. Roberts, Investiga Patric C. Klotzbuecher, Inve Bijoy Panicker, Investigator	tor estigator	05/10/2017
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INSPECTIONAL OBSERVATIONS

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		ALTH AND HUMAN SERVICE	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 26, 2017-May 1	0, 2017	
20993, Attn: N	Ar. Concepcion (Coki) Cruz; Telephone 001-301-7		FEI NUMBER	
	8738; E-MAIL: cderosiab@fda.hhs.gov nation: www.fda.gov/oc/industry		3007277149	
	OF INDIVIDUAL TO WHOM REPORT IS ISSUED			
TO: Jaspreet S	Singh, Vice President Quality			
FIRM NAME	enger, recommendation	STREET ADDRESS		
Intas Pharmace	euticals I td	Plot No. 423/P/A, Sar	khei-Bayla Highway	
CITY, STATE AND		TYPE OF ESTABLISHMENT		
b) (4)	ka Sanand, Ahmedabad, Gujarat 382 213 India	Biosimilar Sterile Dru	ig Manufacturer	
investigation was never de acceptable re reported resu D) The re-in- investigation (a) review of (b) (4) New peak was	vas received earlier dated May 22, 2015 the also explains that further decision shall be fined and the remaining sample was then esult that was meeting specification. The orall from sample retest was report vestigation report for the deviation # 40180 of an additiona (b) (4) observed at the stage of the batch samples of batches (b) (4) samples of batches (as not observed in any of the samples analy	e taken based on the retested (b) b) (4) time. riginal OOS result was ted for the sample. 6 (Attachment-21, data b) (4) in the (b) (4) The page-6 of this executed in	retest result. However The retested samples then invalidated as ted 22-July-2015) in analysis at the investigation report year 2010 to 2011	er, the retest plan e had an and the final cludes an e (b)(4) states, "Historical was carried out.
(b) (4)	However review of the (b) (4) k at the same (b) (4) and the above investig	of the next battering	atch ^{(b) (4)} d to the batch ^{(b) (4)}	nows a similar
be responsible pecifically, The most-reconstruction (LAF) unit, end (LAF) which will be seen to be seen the direction of the	edures are not established which validate to be for causing variability in the characterist tent air flow pattern test (smoke study) of to equipment ID FP12-0036, was performed to	tics of in-process mate the (b) (4) 07JUL2015 by a vend clude subtitled descrip edited filling LAF foo	filling line's la or as documented in otions of various sce tage identified 8 dif	aminar air flow Report FP/ nes by the vendor ferent scenes,
		EMPLOYEE(S) NAME AND TITLE		DATE ISSUED
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OF THIS PAGE		Patric C. Klotzbuecher, Inve Bijoy Panicker, Investigator		05/10/2017
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	ALTH AND HUMAN SERVICE	ES	
FOOD AND DRI	RUG ADMINISTRATION		
DISTRICT OFFICE ADDRESS AND PHONE NUMBER		DATE(S) OF INSPECTION	
US Food & Drug Administration, CDER/Inspection Assessment I White Oak Building 51, Room 4235, 10903 New Hampshire Ave	enue Silver Spring, MD	April 26, 2017-May 1	0, 2017
20993, Attn: Mr. Concepcion (Coki) Cruz; Telephone 001-301-79 001-301-847-8738; E-MAIL: cderosiab@fda.hhs.gov	96-3254; FAX:	FEI NUMBER	
Industry Information: www.fda.gov/oc/industry		3007277149	4-1
NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT IS ISSUED		1	
TO: Jaspreet Singh, Vice President Quality			
FIRM NAME	STREET ADDRESS		
Intas Pharmaceuticals Ltd.	Plot No. 423/P/A, Sar	rkhei-Bavla Highway	
CITY, STATE AND ZIP CODE	TYPE OF ESTABLISHMENT		
Moraiya, Taluka Sanand, Ahmedabad, Gujarat 382 213 India	Biosimilar Sterile Dru		
report result and conclusion identifies video compilation	1		
B) The service vendor's SOP AVS/DOC/SOP/AFV/01, FLOW VISUALIZATION TEST", states the following established as per the mutual agreement between the supattern, adjustments in velocities at the air supply and a established". The studies' edited video footage include differential pressure between the LAF's and H Report FP/AFV/07/15/001 consists of no documentation smoke study and edited video consists of no uninterrupt pressure is maintained within normal operating limits at C) Report FP/AFV/07/15/001 consists of no documentation of laminar air flow.	g: The test are performand the buyer. The performance in exit are done till the est a scene of (a) and the est a scene of (b) (4) and the est a scene of (a) and the est are velocity/Let of the time of demonstration of the time of demonstration and the est are performance in the time of demonstration and the est are performance in the est are done till the est are consistent in the est are performance in the est are perform	In order to get the one acceptable flow particles of the content o	flow pattern is desired flow attern is -01 reading a s at the time of the filter differential ow.
OBSERVATION 7		at the beautiful and the	
Procedures designed to prevent microbiological contamestablished, written and followed.	lination of drug produ	icts purporting to be	sterile are not
Specifically,	(6) (4)		
	the aseptic (b) (4)		ed product filling
operations are performed in the aseptic manufacturing a performed when the actual aseptic filling operation is be	area. However, there i		r sampling being
B) Environmental monitoring out-of-limit investigation			
microbiological out-of-limit for the Grade A classified I	Media Room (LFH) I	Laminar Air Flow Ho	lood was deficient.
Regarding this,(4) CFU (Staphylococcus arlettae) was fo	ound on a settle plate l	located in the Grade	A classified
Media Room (LFH) Laminar Air Flow Hood (BM16-02	229) during the manu	facture of (b) (4)	batch (b) (4)
However the investigation was deficient in that	at there was no produ	ct quality impact ass	sessment made to
	EMPLOYEE(S) NAME AND TITLE		DATE ISSUED
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	Patric C. Klotzbuecher, Inve Bijoy Panicker, Investigator	The state of the s	05/10/2017
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		RUG ADMINISTRATION	.5	
DISTRICT OFFICE	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 26, 2017-May 1	0, 2017	
	Mr. Concepcion (Coki) Cruz; Telephone 001-301- -8738; E-MAIL: cderosiab@fda.hhs.gov	796-3254; FAX:	FEI NUMBER	
	Industry Information: www.fda.gov/oc/industry		3007277149	
	OF INDIVIDUAL TO WHOM REPORT IS ISSUED			
TO: Jaspreet	Singh, Vice President Quality			
FIRM NAME		STREET ADDRESS		
Intas Pharmac	ceuticals Ltd.	Plot No. 423/P/A, Sarkhej-Bavla Highway		
CITY, STATE AND	ZIP CODE	TYPE OF ESTABLISHMENT INSPECTED		
Moraiya, Talu	ika Sanand, Ahmedabad, Gujarat 382 213 India	Biosimilar Sterile Drug Manufacturer		
2017 states a epidermis, k Disinfectant Kocuria var mannitolytic In addition, failed to per "Evaluation challenge m Evaluation of when execut	robial isolates trend analysis (b) (4) summato perform a disinfectant study with the folkocuria variants, Bacillus cereus, and Ralsis Solution using in-house isolates study data iants, Bacillus cereus, and substituted Sphica without any written rationale for this dea this Evaluation of Efficacy of Disinfectant form a percent recovery of positive control of Efficacy of Disinfectant Solution dated icroorganism positive control is required a for Efficacy of Disinfectant Solution. Howe ting this Efficacy of Disinfectant Solution	tonia mannitolytica. Heted April 15, 2017 only ingomonas Paucimobil cision to substitute the t Solution using in-hould during the execution I January 18, 2017 states a part of the acceptant ever, this positive contrastudy.	ise isolates: Staphylowever, Evaluation tested Staphylococis in lieu of testing recommended isolates isolates study date of this study. Proceeds that (4) % recovernce criteria for perfool recovery study were	of Efficacy of cus epidermis, Ralstonia ate for testing. ted April 15, 2017 dure entitled, y of the in-house orming the ras not performed
environmen	es in the quality control testing laboratory tal monitoring and use of these plates in th tal monitoring in the production area prior	e production area. The	media plates were	
E) On May 4, 2017, during a walk-through of the quality control testing microbiology laboratory, we observed				
that the overhead HEPA filters used in the Grade B sterility testing room had an unknown discoloration.				
This room contained the laminar air flow hood unit that is used for finished drug product sterility testing.				
temperature Preparation,	Sterilization, Growth Promotion Incubation	as not being recorded.	o Media" dated Feb	"Receipt, oruary 18, 2017
states that (b)			rature ((b) °C) and m	nedia plate
31100	uld occur at (b) -(b) °C. However, these temp			
media is use	d for the preparation of media used for bio			
SEE	EMPLOYEE(S) SIGNATURE	EMPLOYEE(S) NAME AND TITLE Daniel J. Roberts, Investigate		DATE ISSUED
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PAGE	6.6	Bijoy Panicker, Investigator		05/10/2017
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	FOOD AND I	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:		April 26, 2017-May			
001-301-847	20993, Attn: Mr. Concepcion (Coki) Cruz; Telephone 001-301-796-3234; FAX: 001-301-847-8738; E-MAIL: cderosiab@fda.hhs.gov Industry Information: www.fda.gov/oc/industry NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT IS ISSUED		3007277149		
			3007277147		
	Singh, Vice President Quality				
FIRM NAME		STREET ADDRESS			
Intas Pharma	ceuticals Ltd.	Plot No. 423/P/A, Sarkhej-Bavla Highway			
CITY, STATE AND	ZIP CODE	TYPE OF ESTABLISHMENT	TYPE OF ESTABLISHMENT INSPECTED		
Moraiya, Tal	uka Sanand, Ahmedabad, Gujarat 382 213 India	Biosimilar Sterile Drug Manufacturer			
G) Microbi 6.3.2.1 to p	ological (b)(4) sampling procedure SP-QC erform the (b)(4) method for diluent. However, the method suitability even to the form the form the method suitability even to the form the fo	valuation for this metho	using ster	ile (b) (4)	
plans and te strength, qu Specifically A) On Apri procedure T biological a the Perkin E However, th instruments B) On April printer attach has the abili	Controls do not include the establishment est procedures designed to assure that drug ality and purity. 1 27, 2017, during a walk-through of the quarter of	uality control testing la dard testing procedure (ay" dated November 21 Gen 5 plate reader can be demonstrating that the sality control testing labors is used for pipette calibratings to the settings w	boratory, we disco STP) for the deter- , 2016 states in sec e used for bioassa- results generated of pratory, we observe rations. In addition ithin the instrumer	ds of identity evered that test mination of ction 8.3 that both y analysis. In these two (2) ed that there was no to, this microbalance int. However, this	
entered into	27, 2017, during a walk-through of the quere were six (6) bioassay samples (^{(b)(4)} analyzed on the Biotek Gen 5 plate reade the wrong logbook corresponding to the Fo corresponding incident report for these same	er ID No RD/AN05-135 Perkin Elmer Ensprire p	. However, these solate reader serial r	samples were	
SEE	EMPLOYEE(S) SIGNATURE	EMPLOYEE(S) NAME AND TITLE Daniel J. Roberts, Investigate		DATE ISSUED	
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DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION

DISTRICT OFFICE ADDRESS AND PHONE NUMBER

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

NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT IS ISSUED

TO: Jaspreet Singh, Vice President Quality FIRM NAME

Intas Pharmaceuticals Ltd.

CITY, STATE AND ZIP CODE

Moraiya, Taluka Sanand, Ahmedabad, Gujarat 382 213 India

STREET ADDRESS

Plot No. 423/P/A, Sarkhej-Bavla Highway

DATE(S) OF INSPECTION

FEI NUMBER

3007277149

April 26, 2017-May 10, 2017

TYPE OF ESTABLISHMENT INSPECTED

Biosimilar Sterile Drug Manufacturer

OBSERVATION 9

The responsibilities and procedures applicable to the quality control unit are not in writing and fully followed.

- A) Failure to follow SOP-QA-040-09 entitled "Handling and Retention of Documents and Records" dated August 31, 2015. This procedure states that documents supporting the computer system validation should be retained in the Quality Assurance area. However, on April 26, 2017, we discovered Quality Assurance stamped forms with original handwritten data that was being retained in a stack of loose paper located in the IT Store room. These QA forms were for the Data Backup of Validated Computer System in GMP Area dated March 2016, April 2016, and May 2016.
- B) Failure to follow SOP-OA-094-00 entitled "Status Labeling" dated November 21, 2016. This procedure states that the status of materials as well as equipment used at the facility should be labelled. On April 26, 2017, during a walk-through of the gas cylinder storage area, we observed a storage bank of (b) (4) gas cylinder bank that was unlabeled and received on the night of April 25, 2017 at the facility. These cylinders were not tested and released for use by the quality unit and were unlabeled with its identity and status. Furthermore, we also observed unlabeled nitrogen gas cylinders that were staged for use for quality control testing purposes. In addition, we also discovered an" gas cylinder connection manifold that was still under installation and was not labelled with its designated non-operational status.
- C) Failure to follow SOP SP-QC-101-06 entitled "Operation of Precision Balance, Analytical Balance and Microbalance" dated October 15, 2013. This procedure states in section 6.33 to 6.38 to calibrate the pipettes used at the facility using Picasso Software. However, this software was not available at the time of this inspection and was discontinued at the facility according to Change Control 51252 dated March 10, 2017. This procedure was never updated to reflect this change.
- D) SOP SP-EN-010-04 entitled "Procedure for Breakdown Maintenance" dated February 10, 2017 does not require quality oversight or periodic review for equipment breakdown maintenance. Regarding this, Breakdown maintenance request forms (F/SP-EN-010.3-01) that are used to document equipment malfunctions in the production area are not reviewed by the Quality Unit. The user or operator of the broken equipment is instructed

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EMPLOYEE(S) SIGNATURE DIR 502 10 MAY 2017 EMPLOYEE(S) NAME AND TITLE (Print or Type) Daniel J. Roberts, Investigator Patric C. Klotzbuecher, Investigator Bijoy Panicker, Investigator

05/10/2017

DATE ISSUED

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			FEI NUMBER	
	001-301-847-8738; E-MAIL: cderosiab@fda.hhs.gov Industry Information: www.fda.gov/oc/industry		3007277149	
NAME AND TITLE	OF INDIVIDUAL TO WHOM REPORT IS ISSUED			
TO: Jaspreet S	Singh, Vice President Quality			4
FIRM NAME		STREET ADDRESS		
Intas Pharmace	euticals Ltd.	Plot No. 423/P/A, San	Plot No. 423/P/A, Sarkhej-Bavla Highway	
CITY, STATE AND	ZIP CODE	TYPE OF ESTABLISHMENT	TYPE OF ESTABLISHMENT INSPECTED	
Moraiya, Talul	ca Sanand, Ahmedabad, Gujarat 382 213 India	Biosimilar Sterile Dru	Biosimilar Sterile Drug Manufacturer	
birds. Specifically, On April 26, in the package (4) including including (b) (4) including em	2017, we observed numerous pigeons per that can be used to fill the band of the storage warehouse. This was that can be used to fill the band of the storage warehouse.	erching along the walls, rehouse contained prindrug product, sal drug product and area, (b) (4) (b) (4) (b) (4) (b) (4) (b) (4) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d	dangling overhead nary packing materia econdary packing n , consur bags and QC	wires and ceiling als including naterial including mable materials
and prevent of maintained. Specifically, On May 2, 20 continuous te temperature of Freezer). The vials. In addition, vol.(4)	ontamination and records of the use of the ontamination and records of the use of the old of the bio-but of the bio-but of the management of the bio-but of	lk manufacturing (BBN for the master and work k ^{(D)(4)} C Freezer) and B for these freezers that spancy in the amount of ce and Issuance Record de (b)(4) temperatu	Anks and storage contains and storage contains cell bank storage M-03-501 (Working tore the master and working cell bank	at there was no ge (b) (4) C working cell bank inventory for (b) (4) (a) k/Working Cell
	EMPLOYEE(\$) SIGNATURE	EMPLOYEE(S) NAME AND TITLE	E (Print or Type)	DATE ISSUED
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PAGE	12	Bijoy Panicker, Investigator		03/10/2017

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DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION

DISTRICT OFFICE ADDRESS AND PHONE NUMBER DATE(S) OF INSPECTION US Food & Drug Administration, CDER/Inspection Assessment Branch April 26, 2017-May 10, 2017 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: FEI NUMBER 001-301-847-8738; E-MAIL: cderosiab@fda.hhs.gov 3007277149 Industry Information: www.fda.gov/oc/industry NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT IS ISSUED TO: Jaspreet Singh, Vice President Quality FIRM NAME STREET ADDRESS Intas Pharmaceuticals Ltd. Plot No. 423/P/A, Sarkhej-Bavla Highway

TYPE OF ESTABLISHMENT INSPECTED

Biosimilar Sterile Drug Manufacturer

OBSERVATION 12

Moraiya, Taluka Sanand, Ahmedabad, Gujarat 382 213 India

CITY, STATE AND ZIP CODE

Procedures describing the calibration of instruments, apparatus, gauges and recording devices are not written or followed.

Specifically,

The scale that is used in the quality control raw material packaging laboratory to measure the length and width dimensions according to incoming product label specifications is not calibrated. In addition, a procedure has not been established for the calibration of this scale.

OBSERVATION 13

The quality control unit lacks responsibility to approve all procedures or specifications impacting the quality of drug products.

Specifically,

On April 26, 2017, during a walk-through of the system (b)(4) system (b)(4) we discovered an (b)(4) measurement procedure that was prepared and reviewed by the engineering group and was not reviewed and approved by the quality unit. This test procedure was being used to periodically test the concentration of (b)(4) present in the (b)(4) system. In addition, the sample vial that is used for this (b)(4) test procedure was observed in an unclean status with remaining residual colorimetric sample left over from the previous (b)(4) test that was performed.

OBSERVATION 14

Employees are not given training in the particular operations they perform as part of their function. Specifically,

There is no required training for outside contractors performing equipment maintenance and calibration activities inside the aseptic area. For example, on April 14,:2017, calibration of the mobile laminar air flow hood gauge was performed inside the aseptic area by an outside calibration company. However, the person performing the calibration activities within the aseptic area was only required to complete a health declaration form prior to escorted entry into the aseptic area.

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EMPLOYEE(S) SIGNATURE

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

Daniel J. Roberts, Investigator

Patric C. Klotzbuecher, Investigator

Bijoy Panicker, Investigator

05/10/2017

FORM FDA 483 (9/08) PREVIOUS EDITION OBSOLETE

INSPECTIONAL OBSERVATIONS

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