DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION			
DISTRICT OFFICE ADDRESS AND PHONE NUMBER 1431 Harbor Bay Parkway		DATE(S) OF INSPECTION 06/16/2014-07/31/201	4*
Alameda, CA 94502-7070 Phone: 510-337-6700 Fax: 510-337-6702		FEI NUMBER	
Industry Information: www.fda.gov/oc/industry		3004182921	
NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT IS ISSUED TO: George Frederick Wilkinson, President and Chief Executive	Officer		
FIRM NAME	STREET ADDRESS		
Impax Laboratories, Inc.	31145 San Antonio St	reet	
CITY, STATE AND ZIP CODE	TYPE OF ESTABLISHMENT		
Hayward, CA 94544-7905	Drug Manufacturer		
THIS DOCUMENT LISTS OBSERVATIONS MADE BY THE FDA REPRESENTA OBSERVATIONS; AND DO NOT REPRESENT A FINAL AGENCY DETERMINATION OBSERVATION, OR HAVE IMPLEMENTED, OR PLAN TO IMPLEMENT CORIOBJECTION OR ACTION WITH THE FDA REPRESENTATIVE(S) DURING THE YOU HAVE ANY QUESTIONS, PLEASE CONTACT FDA AT THE PHONE NUMBER	ON REGARDING YOUR COMPLI RECTIVE ACTION IN RESPONS INSPECTION OR SUBMIT THIS	ANCE. IF YOU HAVE AN OB. SE TO AN OBSERVATION, Y	ECTION REGARDING AN
DURING AN INSPECTION OF YOUR FIRM (I) (WE) OBSERVED:			
OBSERVATION 1			
There is a failure to thoroughly review any unexplained distributed.	d discrepancy whether	or not the batch has	s been already
Specifically,			
A.) On 07/09/2014, we reviewed Laboratory Investigated between that release testing for Pyridostigmine Bromis reported assay value of an 10/11/2012. The Quality Bromide Tablets, 60mg assay is as stated in writing Specification (OOS), Quality Control Alert Limit (QC, August 24, 2012. Confirmation testing was performed 10/11/2012 and the resulting assay values were out of a CCAL AS results for the Affected lot were true results.	de Tablets, 60mg (AN ality Control Action Litten procedure 2QCC-AL) and Aberrant Lab during the laboratory specification, approximately part, "there was no	DA bulk lo mit (QCAL) for the 001.02 titled, "Eval oratory Results" Eff investigation (PR21 nately (speci	had a Pyridostigmine uation of Out-of- ective Date 8999) on fication range:
The investigation did not address the ramifications of a did the investigation expand into manufacturing operate and was approved by Quality Assurance and released to	ions. Lot	s an expiration date	
QCAL of per written procedure 2QCC-001.02 to Control Alert Limit (QCAL) and Aberrant Laboratory	ng (ANDA performed ue of performed itled, "Evaluation of C Results" Effective Date	ulk lot Web	Ve observed the nich is below the (OOS), Quality During the
SEE REVERSE OF THIS PAGE EMPLOYEE(S) SIGNATURE FUND LESS SIGNATURE FUND LESS SIGNATURE FUND LESS SIGNATURE	EMPLOYEE(S) NAME AND TITLE Lance M. De Souza, Investig Eric L. Dong, Chemist Stephanie A. Slater, Investig	gator	7/31/2014

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1431 Harbor Bay Parkway	06/16/20	014-07/31/2014*
Alameda, CA 94502-7070 Phone: 510-337-6700	FEI NUMBE	ER
Fax: 510-337-6702	3004182	
Industry Information: www.fda.gov/oc/industry NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT IS ISSUED	3004101	
	Constitution Officer	
TO: George Frederick Wilkinson, President and Chief I	STREET ADDRESS	
Impax Laboratories, Inc.	31145 San Antonio Street	
CITY, STATE AND ZIP CODE	TYPE OF ESTABLISHMENT INSPECTED)
Hayward, CA 94544-7905		
Based on test method 2TFDCAS.01 titled, "Flu Uniformity and Stability Test Method", the firm However, this investigation did not co No.: SUM-AR-13-0057 Rev. 01, titled "Forced Identification, Assay, Uniformity and Stability written procedure 2QCC-001.02 did not justify	drocortisone Acetate Tablets, USP Idea claimed that Fludrocortisone Acetate nsider the of the process of the pr	entification, Assay, e degrades duct as described in Report one Acetate Tablets, USP hermore, the investigation and
OBSERVATION 2 The accuracy, sensitivity, specificity, and repro	ducibility of test methods have not be	en established and
documented.		
Specifically,		
A.) On 07/07/2014, we reviewed method validated Identification, Assay Uniformity, and Stability changed multiple conditions simmay mask the opposing effects of multiple changed "Validation and Verification for Phase III and Consequently to perform each condition or condition.	Test Method Validation" dated 01/14/ ultaneously. No justification was pro- iges. Additionally, your written proce Commercial Test Methods", Effective	/2008. We observed that the vided for this approach that dure 2LAB-054.00 titled,
documented justification for the continued use Identification, Assay, Uniformity And Stability	ite difference of the average results friation was not addressed by your firm of the assay method 2TTMSAS titled, Test Method", Effective 06/15/2009.	om each laboratory was n and there was no , "Tamsulosin HCL Capsules
EMPLOYEE(S) SIGNATURE	EMPLOYEE(S) NAME AND TITLE (Print or T)	(PO) DATE ISSUED
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ORM FDA 483 (9/08) PREVIOUS EDITION OBSOLETE	INSPECTIONAL OBSERVATIONS	Page 2 of 6

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DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION				
DISTRICT OFFICE	ADDRESS AND PHONE NUMBER		DATE(S) OF INSPECTION	
1431 Harbor l Alameda, CA			06/16/2014-07/31/201	4*
Phone: 510-33	37-6700	İ	FEI NUMBER	
Fax: 510-337-			3004182921	
Industry Inform	nation: www.fda.gov/oc/industry			
	OF INDIVIDUAL TO WHOM REPORT IS ISSUED Prederick Wilkinson, President and Chief Executive	e Officer		
FIRM NAME		STREET ADDRESS		
Impax Laborat	tories, Inc.	31145 San Antonio Str	reet	
CITY, STATE AND		TYPE OF ESTABLISHMENT I	NSPECTED	
		Drug Manufacturer		
Validation R dated 06/27/ assessment. Tablets, 100/ 25mg, 50mg 100mg; Oxy THIS IS A R OBSERVAT	is also available. For example, Document Leport for The Assay Test Method (2TPYE 2013 was based on USP, but was significated Additionally, other products, which lack amg, 150mg, and 200mg; Bupropion HCl E, and 100mg; Dipyridamole Tablets 25mg butynin Chloride ER Tablets 5mg, 10mg, EPEAT OBSERVATION. TION 3 edures for cleaning and maintenance fail that materials used and instructions for protesting and materials and protesting and materials and protesting and materials and protesting and protesting and protest	BAS) for Pyridostigmin intly modified and lack in equivalency assessme ER (XL) Tablets, 150m is, 50mg, and 75mg; Org and 15mg; and Rimant o include description in	ne Bromide Tablets, ed a documented Usent includes: Bupros g; Dantrolene Sodiu bhenadrine Citrate E adine Hydrochlorid	USP, 60mg", SP equivalency pion HCl ER Im Capsules, ER Tablets, e Tablets, 100mg.
A.) On 07/22/2014, we observed Quality Assurance (QA) Inspectors perform cleaning verification procedures on your (equipment number IP5025) and (equipment number EQ6346). After the sampling of Fludrocortisone Acetate API residue and cleaning agent residue was completed, we observed residual rayon fibers on the inner surface of the The trace rayon fiber strands measured up to 1.2 cm in length. Your written procedure 2QUA-085.03 titled, "Equipment Swab, Rinse Preparation and Sampling" Effective Date 07/21/2014 does not instruct employees to perform a visual inspection check of the swab locations after swabbing, nor does it instruct the cleaning of the swab areas post-sampling. B.) Written procedure 2QUA-085.03 titled, "Equipment Swab, Rinse Preparation and Sampling" Effective Date				
07/21/2014 was not consistent with other cleaning validation test methods that are currently used by QA (inspectors. For example, on 07/22/2014, your QA Inspectors followed 2QUA-085.03 and test method 2TFDCCV.03 titled, "Fludrocortisone Acetate Tablets Cleaning Validation Test Method" Effective Date				
	EMPLOYEE(S) SIGNATURE	EMPLOYEE(S) NAME AND TITLE	(Print or Type)	DATE ISSUED
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Alameda, CA 94502-7070			00/10/2014-0//31/20	14*
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Impax Laboratories, Inc.		31145 San Antonio Stre	eet	
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Hayward, CA 94544-7905		Drug Manufacturer		
[of rayon for sampling swabs] in SOP VAL-0 Time for soaking [of rayon for sampling swab validation test method 2TFDCCV:03, the sam and stop times. OBSERVATION 4	os] in SOP 2	VAL-029 attachmen	ts." However, acce	ording to cleaning
Appropriate controls are not exercised over co	omputers or Is are institu	related systems to as ted only by authorize	sure that changes and personnel.	in master
Specifically,				
The spectrophotometer local IP8032, located in Building B8) and the number IP4263 in Building B5) did not have vecannot re-write or delete analytical data during release testing, raw material testing, stability to THIS IS A REPEAT OBSERVATION.	validated dat g analyses. E	spectrophotometer ta integrity acquisition Both systems were us	in the QC Labora on systems to ensured in GMP activit	tory (equipment re that analysts ies, such as
OBSERVATION 5				
The responsibilities and procedures applicable	to the quali	ty control unit are no	ot fully followed.	
Specifically,			,	
A.) On 6/16/2014, we found a plastic bag con Chromatography System (equipment number I a different type of laboratory instrument, HPL	(C3). The plant	astic bag was labeled	I, "HPLC 236 B",	nstrument Ion which references
EMPLOYEE(S) SIGNATURE	EMP	LOYEE(S) NAME AND TITLE (F	Print or Type)	DATE ISSUED
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DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION DISTRICT OFFICE ADDRESS AND PHONE NUMBER DATE(S) OF INSPECTION 1431 Harbor Bay Parkway 06/16/2014-07/31/2014* Alameda, CA 94502-7070 Phone: 510-337-6700 FEI NUMBER Fax: 510-337-6702 3004182921 Industry Information: www.fda.gov/oc/industry NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT IS ISSUED TO: George Frederick Wilkinson, President and Chief Executive Officer FIRM NAME STREET ADDRESS Impax Laboratories, Inc. 31145 San Antonio Street TYPE OF ESTABLISHMENT INSPECTED CITY, STATE AND ZIP CODE Hayward, CA 94544-7905 Drug Manufacturer Six of the thirteen vials lacked reference to the test method or notebook. A single vial labeled, "H2O" was not labeled consistent with instructions given by written procedure 2LAB-010.00 titled, "Control of Labeling of Chemicals, Reagents, and Solutions" Effective Date 03/04/2014, in that it was missing references to the test method, notebook, and date prepared. Written procedure 2LAB-010.00 section 5.3 Standard and Sample Solution Labeling, states in part, "Label standard solution with the name of the standard, date of preparation, analyst initials, method and reference...Label sample solution with the sample name, date of preparation, analyst initials, method and reference." B.) On 07/28/2014, we reviewed laboratory notebook number WI24900, pages 22 to 27, which described the stability testing for dissolution of Fludrocortisone Acetate Tablets, 0.1mg lot number 10000283 . We found that the standard accuracy check was outside of the acceptable range The analyst did not follow written procedure 2QCC-008.03 titled, "General with a value of Chromatography" Effective Date 04/28/2014, section 5.4.6.1, which instructs analysts to "Re-inject the standard check solution to make sure the failure was not due to equipment malfunction." The analyst proceeded to step 5.4.6.3, and prepared another set of two standard solutions and repeated the standard check. C.) On 06/17/2014, we observed two small, unlabeled plastic bags containing tablets in the large waste bin in Building B2 Room 196. One bag contained 11 orange tablets. The second bag contained 12 purple tablets. The bags did not have the required waste label affixed to them and they were not entered in the waste bin logbook per written procedure 2MFG-149.01 titled, "Solid Non-Controlled Substance Waste Disposal" Effective Date 06/05/2014. OBSERVATION 6 Buildings used in the manufacturing and holding of a drug product are not maintained in a good state of repair. Specifically, On 06/16/2014, during our inspection of the walk-in Stability Chamber (equipment number IP5166, 23-27oC, 55-65% RH) we observed the following: EMPLOYEE(S) SIGNATURE EMPLOYEE(S) NAME AND TITLE (Print or Type) DATE ISSUED inno Lance M. De Souza, Investigator Eric L. Dong, Chemist 7/31/2014 Stephanie A. Slater, Investigator

DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION

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FEI NUMBER

3004182921

Industry Information: www.fda.gov/oc/industry

NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT IS ISSUED

TO: George Frederick Wilkinson, President and Chief Executive Officer

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- 1.) Rust stains were on the metallic floor of the Stability Chamber underneath rubber floor mats.
- 2.) The copper piping elbow was covered in silicone-epoxy.
- 3.) One ceiling tile was sagging.
- 4.) Corrosion was on the condensate drain pan.

This walk-in Stability Chamber is used for the storage of GMP commercial products on stability studies, products for R&D Submission studies, and products on clinical stability studies.

OBSERVATION 7

Changes to written procedures are not drafted, reviewed and approved by the appropriate organizational unit.

Specifically,

- A.) Change Control No. 200005111 dated 04/30/2014 requested a change to written procedure 2QUA-092.03 titled, "Sampling Plans for Process Performance Qualification Lots" to remove references to "FDA Guidance for Industry, Powder Blends and Finished Dosage Units Stratified In Process Dosage Unit Sampling and Assessment, Draft October and November 2003" from the procedure. However, the most recent version of the procedure, 2QUA-092.04, section 6.1.2.1, was not changed according to this change control request.
- B.) Written procedure 2QCC-016.04 titled, "Data Review Procedure for Quality Control Laboratory" Effective Date 05/12/2014 section 5.3.1.1 refers to "Attachment 1". Attachment 1 is a guideline that can be used by Quality Reviewers to review laboratory data. We observed that Attachment 1 was missing from 2QCC-016.04. According to section 5.3.1.1, "The reviewer is responsible for reviewing the material in both the guideline and topics covered in this SOP". Furthermore, on 7/15/2014, we observed QC Notebook Reviewer A.G.P. use an uncontrolled, Excel spreadsheet during a laboratory notebook review.

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OF THIS
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EMPLOYEE(S) SIGNATURE

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

Lance M. De Souza, Investigator

Eric L. Dong, Chemist
Stephanie A. Slater, Investigator