DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION DISTRICT OFFICE ADDRESS AND PHONE NUMBER DATE(S) OF INSPECTION 1/24, 1/25, 1/26, 1/28, 2/3, 2/4, 2/7, 2/9, U.S. Food and Drug Administration, New Jersey District Office 2/10, 2/11, 2/15, 2/18/2011 10 Waterview Boulevard, 3rd Floor Parsippany, NJ 07054 **FEI NUMBER** P: (973)-331-4900, F: (973)-331-4969 2243092 Industry Information: www.fda.gov/oc/industry NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT IS ISSUED TO: Dr. David P. Jacobus, President FIRM NAME STREET ADDRESS Jacobus Pharmaceutical Co., Inc. Industrial Research Building, Schalks Crossing Road CITY, STATE AND ZIP CODE TYPE OF ESTABLISHMENT INSPECTED Plainsboro, NJ 08536 Active Pharmaceutical Ingredient and Finished Dosage Form Mfr. 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 (I) (WE) OBSERVED: ***AMENDED THE FDA 483 TO ORGANIZE THE OBJECTIONABLE CONDITIONS ACCORDING TO THE GMP SYSTEMS AND TO AMEND OBSERVATION 4 FOR A TYPOGRAPHICAL ERROR.*** LABORATORY CONTROL SYSTEM OBSERVATION 1 The written stability program for drug products does not include reliable, meaningful, and specific test methods. Specifically, your stability program for Dapsone 25 mg and 100 mg tablets does not include a stability-indicating method to monitor potential impurities. **OBSERVATION 2** Your stability testing program is not designed to monitor the stability characteristics of APIs. Specifically, you do not evaluate the Dapsone drug substance for any impurities during stability testing of this API. EMPLOYEE(S) SIGNATURE EMPLOYEE(S) NAME AND TITLE (Print or Type) DATE ISSUED REVERSE Atul J. Agrawal, Consumer Safety Officer 2/24/2011

DEPARTMENT OF HEALTH AND HUMAN SERVICES

FOOD AND DRUG ADMINISTRATION

DISTRICT OFFICE ADDRESS AND PHONE NUMBER

U.S. Food and Drug Administration, New Jersey District Office

10 Waterview Boulevard, 3rd Floor

Parsippany, NJ 07054

P: (973)-331-4900, F: (973)-331-4969

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

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1/24, 1/25, 1/26, 1/28, 2/3, 2/4, 2/7, 2/9,

2/10, 2/11, 2/15, 2/18/2011

FEI NUMBER

2243092

TO: Dr. David P. Jacobus, President

ı	FIRM NAME
١	Jacobus Pharmaceutical Co., Inc.

Industrial Research Building, Schalks Crossing Road

TYPE OF ESTABLISHMENT INSPECTED

STREET ADDRESS

CITY, STATE AND ZIP CODE Plainsboro, NJ 08536

Active Pharmaceutical Ingredient and Finished Dosage Form Mfr.

QUALITY SYSTEM

OBSERVATION 3

Your firm's quality unit is not involved in quality-related matters; the unit fails to review deviations from established specifications or procedures and does not adequately assess the need for corrective actions for deviations it is made aware of.

Specifically,

- 1. Excursions dated back to June 2009 for your controlled room temperature (CRT) stability chamber, in-process cold room, and transport and handling of in-process lots of your PASER granules product were not investigated. These include the following examples:
- a. For the CRT chamber used for long-term stability samples for APIs and finished drug products (e.g. Dapsone, Sulfapyridine, 3,4 Diaminopyridine):

Dates	
8/26-10/1/09	
12/7/09-1/11/10	
3/13-4/19/10	
8/19-9/28/10	
12/28/10-1/26/11	

of Excursion Events

Humidity
low & high
low
high
low
low

N/A low N/A high low

Temperature

Total Length of Time >14 days >2 days

>19 hours >1 day >1 day

For the in-process cold room used to store in-process PASER granule lots (storage requirement of less than 60.44 °F):

Dates 3/18-4/9/10 7/8-8/9/10

of Excursion Events

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Humidity N/A N/A Temperature high high

Total Length of Time >14 hours

>2 days

You have no SOP that defines the monitoring and maintenance of your stability chambers and cold room. The stability chamber is not monitored on a frequent basis and has not been reviewed for adequacy since the sole

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ays)

qualification of the chamber in 1999.

b. For the transport and handling of in-process PASER granule lots, I found the following high temperature excursions:

Dates 6/12-7/22/09 2/19-3/8/10

6/4-7/21/10

of Lots

of Excursion Events

Total Time
>25 days (1 event=
>20 hours
1 day

Extreme Temp Recorded 82.9 °F 74.8 °F

73.7 °F

This product is transported to a contract coating facility and then to a contract packaging company. Your employees informed me that this product is to be maintained at less than between manufacturing steps and that data loggers are included during the transport and handling of in-process lots of PASER granules to ensure adequate storage and handling.

No follow-up or investigations were conducted for the excursions listed above to determine root cause and potential impacts on the products and stability studies.

2. Deviations during the production of 4-Aminosalicylic Acid (aka PAS) are not reviewed by your firm's quality unit at the time of occurrence. According to your firm's SOP # G-0023-01 titled "Deviations," your quality assurance department is responsible for reviewing and approving all proposed actions and corrective actions following deviations within hours of the event. Examples of deviations not reviewed by your QA unit within hours include:

Lot 1163	Deviation	Date of Deviation	QA Review Date of Deviation
1163	pH drop during precipitation	2/15/09	3/19/09
1171	pH drop during precipitation	3/10/09	4/8/09
1219	flow meter malfunction*	7/31/09	8/21/09
1364	acid valve malfunction**	10/20/10	12/13/10

* This flow meter malfunction also occurred during the 8 subsequent lots (1220-1227) of PAS manufactured after

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Plainsboro, NJ 08536	Active Pharmaceutical	Ingredient and Finishe	ed Dosage Form Mfr.
Lot 1219. Your QA unit did no assessment to determine appropriate corrective and preventative actions after the flow meter problems associated with lots 1219-1227. *** Production indicated that this may affect the API particle size. The production of the batch was continued. I observed that there is no written program that identifies and defines your quality unit's roles and responsibilities related to the manufacture, processing, packaging, holding, and distribution of drug products.			
OBSERVATION 4 Written procedures are not established for evaluations done at least annually and including provisions for a review of complaints and investigations conducted for each drug product.			
Specifically, a. Your quality unit failed to review all complaints and conducting annual reviews. For example, the 2009 annual participation of manufacturing investigation were for the same issue (moisture content failures during b. You do not have an established procedure for evaluat would include a review of complaints and investigations annual reviews for APIs but not finished drug products.	nal review for PASER as conducted for the page manufacturing). The strength of the page o	Granules did not i roduct. Three of the ducts on at least an	nclude a review of nese investigations annual basis that
FACILITIES AND EQUIPMENT SYSTEM			
OBSERVATION 5			
Appropriate controls are not established over computerize	zed systems.	3-	±10
Specifically, computerized systems in your Quality Contunauthorized access to, changes to, or omission of data. systems connected to your HPLC and UV-VIS instruments.	Electronic data can be nts with no audit trail	e deleted from com to document such	an event.
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DEPARTMENT OF HEALTH AND HUMAN SERVICES

FOOD AND I	DRUG ADMINISTRATION		8.0
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TO: Dr. David P. Jacobus, President	STREET ADDRESS		
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CITY, STATE AND ZIP CODE	TYPE OF ESTABLISHMENT I		1g Koau
Plainsboro, NJ 08536	The second of th	Ingredient and Finishe	ed Dosage Form Mfr.
Additionally, one general account and password for Cinstalled on these systems, and no computer lock med to data.		-	
OBSERVATION 6	(\$4)		
Buildings used in the manufacture, processing, or holding of drug products are not maintained in a clean and sanitary condition.			
Specifically, I observed powder-like residues covering approximately half of the floors and walls of your firm's sampling area for raw materials and components. I also observed leaking water from the outside of your facility onto the floors and walls of this sampling area.			
OBSERVATION 7	<u> </u>	.*.	
Routine calibration of electronic equipment is not per proper performance.	formed according to a w	ritten program des	igned to assure
Specifically, you failed to calibrate and ensure the proper performance of a digital thermometer (serial # 99560022) used during the production of the finished drug product PASER granules to monitor the inlet air temperature, a critical parameter of the fluid bed dryer. The thermometer was due for calibration on June 30, 2010. Based on your firm's records, the fluid bed dryer has been used on a daily basis in the manufacturing process of more than batches of PASER granules since June 30, 2010. In addition, I observed another thermometer that is connected to your "Unit 2" spheronizer with no tag or sticker to indicate its calibration status.			
PRODUCTION SYSTEM		ı.	10
OBSERVATION 8			
The process validation for a 50% increase in the batch ingredient PAS is inadequate.	1	of the active pharm	naceutical
EMPLOYEE(S) SIGNATURE	EMPLOYEE(S) NAME AND TITLE	(Print or Type)	DATE ISSUED
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NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT IS ISSUED

To. Dr. David P. Jacobus President

10: Bi. David I. Jacobas, I resident		
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For example:

- a. The validation did not define or specify the critical process parameters that need to be monitored and controlled.
- b. There were no pre-defined acceptance criteria to determine the reproducibility of the process.
- c. The protocol and report noted changes in the steps (e.g. size of the precipitations and centrifuge loads) and the times required. These specific changes were not outlined and justified in the protocol or report.
- d. There was no provision for increased sampling to demonstrate the robustness of the process.
- e. There was no provision for placing validation batches on stability.

OBSERVATION 9

Procedures designed to prevent objectionable microorganisms in drug products not required to be sterile are not established and followed.

Specifically, your procedure for sampling purified water is inconsistent with actual practice. I observed employees acquiring purified water for use at valve 11 by using a plastic hose that is approximately 5 feet long. The hose is stored (hung) in several loops and routinely connected to the port in between uses, thus increasing the risk for bio-film buildup. Sampling is conducted by disconnecting the hose and directly sampling the port. This point of use is used to acquire purified water during the production of PASER granules.

OBSERVATION 10

All compounding and storage containers used during the production of a batch of drug product is not properly identified at all times to indicate the phase of processing of the batch.

Specifically, I observed that drums of in-process lots of PASER granules at the same stage of manufacture are stored together in your manufacturing areas and hallways during manufacturing and QC testing without being adequately identified as to its status. You have no controls in place to prevent mix-ups of in-process material for further manufacture.

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