

Food and Drug Administration Rockville, MD 20857

WL: 320-04-03

Warning Letter

Via Certified and Registered Mail

FEB 1 0 2004

Ding You Xin
Factory Director
Shanghai Medical Ltd.,
No. 15 Pharmaceutical Factory
1440 Bei Di Road
Shanghai, China

Dear Mr. Ding:

We have completed our review of the inspection of your pharmaceutical manufacturing facility in Shanghai, China, by Investigator Robert C. Horan, Ph.D. and Chemist Susan W. Ting, during the period of 27-31 October 2003. The inspection revealed significant deviations from U.S. current Good Manufacturing Practice (cGMP) in the manufacture of active pharmaceutical ingredients (APIs). The deviations were presented to you on an Inspectional Observations (FDA-483) Form, at the close of the inspection. These cGMP deviations cause your APIs to be adulterated within the meaning of section 501(a)(2)(B) of the Federal Food, Drug, and Cosmetic Act.

We have reviewed your November 7, 20 and	December 22, 2003, responses to the FDA
483 Inspectional Observations sent through	Group Vice President, of
These responses do not	sufficiently address the deviations observed
during the aforementioned inspection.	

Specific areas of concern include, but are not limited to:

1. Qualifications of those working in the Quality Assurance (QA) and Quality Control (QC) units have not been demonstrated to be adequate.

In your response dated November 20, 2003, you state that, "Our parent company has transferred two qualified QC supervisors" and that, "The interim head of QC has been replaced with a qualified individual." In the organization chart that you provided as Appendix 3, two of these individuals are identified as having Bachelor of Science degrees in engineering and one as being a Licensed Pharmacist having graduated from a Secondary Technical School. Further, no one on the organizational chart, including supervisors in QA and QC, are identified as having academic or other suitable training in

chemistry or microbiology. This is of particul	lar concern because all of the items listed on
the FDA 483 related to the chemistry and mic	robiology deviations in the quality control
unit. The investigative team also stated that a	nalysts could not always answer their
questions about testing. For example, a super	visor and QC manager could not explain
1	assay determination for
and In addition, the	he analyst performing this assay was
unaware that it is necessary to enter the	The order for the result to be
calculated properly. Lastly, the two microbio	logists interviewed were unable to
accurately answer questions about growth pro	motion and the identification of
microorganisms.	

In your recent correspondence you offered to provide our office a copy of the internal audit that resulted from this inspection. We would like to see your audit findings.

2.	One of the discussion po	ints with ma	nagement concer	med missing data for the
	analysis of	and	Jbyr .	There
	analysis of were six entries in the computer files.	Jlogbook th	nat could not be f	ound in the correlating

In your response, you state that these were samples tested for training purposes and their were subsequently discarded. We fail to see how this could be accurate since the analyst conducting the test on 2/13/03 conducted 24 other acceptable tests before this. In addition, the analyst conducting the tests on 2/21/03, 2/23/03, 2/25/03, 2/27/03, and 3/01/03 conducted analyses on 2/20/03, 2/24/03, 2/26/03, and 2/28/03. These test results were entered as acceptable prior to completion of what you are telling us is training. We are concerned about this discrepancy.

3. The microbiological test records all appear to be recently written in spite of the fact that some date back as far as two years.

You state that the documents may appear new because they are kept in plastic folders away from heat and light. The investigative team says they never observed any of the documents they requested from the microbiological laboratory being removed from plastic folders, nor did they observe this practice anywhere else in the firm. In addition, the investigative team expressed concerns that the records having one entry per day appeared to have multiple entries in the same handwriting written at a single time. Also, entries identified as being performed by a single person appeared to be written in more than one person's handwriting. They observed this with virtually all of the documents they reviewed in the microbiological laboratory, including such documents as equipment usage logs, logs for record receipt of materials, and for transfer of cultures. You failed to address this in your responses.

4. Individuals responsible for overseeing testing, other management,
The investigative team was together during the interaction with the above mentioned individuals regarding the test records for
Another related observation stated that one

5. Compendial and secondary reference standards were not properly stored.

The investigative team found the compendial and secondary reference standards stored in the controlled room temperature stability room. We do not have assurance that these reference standards used to test the finished APIs have not degraded as a result of being subjected to the temperature and humidity conditions in the stability room. In your response, before installing a ceiling fan, you state that the temperature was at the outlet of the heater. The observation indicates that this air was blowing directly on the reference standards. Reference standards that are not stored under appropriate conditions could result in false test values. Product that is out of specification could test within specification. This draws into question your test results for product shipped to the United States.

6. Microbiological testing was inadequate in that the samples was not neutralized prior to performing the]testing.
In your response you expressed concern that if the in the sample was you would not be testing the "as is". It is necessary to neutralize the because it interferes with microbiological testing. Without the neutralization is the content of the property of the property of the content of	step, the
present in the sample.	, , , , , , , , , , , , , , , , , , , ,
The procedure you submitted with your response indicates that you will add a neutralizing agent,	tiveness of sample

The cGMP deviations identified above or on the FDA-483 issued to your firm are not to be considered an all-inclusive list of the deficiencies at your facility. FDA inspections are audits, which are not intended to determine all deviations from cGMP that exist at a firm. It is the responsibility of your firm to assure compliance with all U.S. standards for current Good Manufacturing Practice.

Due to the significance of these deficiencies the FDA will deny entry of drugs manufactured by your firm into the United States. The articles will be subject to refusal of admission pursuant to Section 801(a)(3) of the Act in that the methods and controls used in their manufacture do not appear to conform to current Good Manufacturing Practice within the meaning of Section 501(a)(2)(b) of the Act.

Until FDA can confirm compliance with cGMP and correction to the most recent inspection deficiencies, this office will recommend disapproval of any new applications listing your firm as the manufacturer of active pharmaceutical ingredients.

Please contact Karen K. Moksnes, Compliance Officer, at the address and telephone number shown below if you have any questions related to human drugs.

U.S. Food & Drug Administration Center for Drug Evaluation and Research Foreign Inspection Team, HFD-325 11919 Rockville Pike, 4th Floor Rockville, MD 20852 Tel: (301) 827-9008; FAX (301) 827-8909 Shanghai Medicinal Ltd., No. 15 Pharmaceutical Factory, Shanghai, China Page 5

Or, contact Jorge F. Christian, Compliance Officer at the address and telephone number shown below if you have any questions related to veterinary drugs.

U.S. Food & Drug Administration Center for Veterinary Medicine Division of Compliance, HFV-232 7500 Standish Place Rockville, MD 20855

Tel: (301) 827-0152; FAX (301) 827-1498

Sincerely,

Joseph C. Familiare

Director

Division of Manufacturing and Product Quality Center for Drug Evaluation and Research

(Kloog Durnava,)

Gloria Dunnavan

Director

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