DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION DISTRICT ADDRESS AND PHONE NI MARE DATE(S) OF INSPECTION 01/28/2019-02/08/2019 ORA OPQO HQ, Room #2032 12420 Parklawn Drive, Rockville, MD 20857 3004819820 ORAPHARMInternational483responses@fda.hhs.gov Industry Information: www.fda.gov/oc/industry Mr. Srinivas Rao Kalakuntla, Senior General Manager & Site Head - Manufacturing B-15, Phase 1A, Verna Industrial Area Lupin Limited CITY, STATE, ZIP CODE, COUNTRY Verna, Salcette, Goa - 403722, India Drug Product 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.

Specifically,

- 1. The firm's procedure CQA-004-17 "Handling of out of Specification test results" Section 5.1.12 (a) states 'Retesting shall be done by analysis following the approved laboratory procedure preferably by original analyst from the portion of sample available in the laboratory'. The procedure lacks statistical justification to release the batch based on retest data.
 - a) OOS/C/18/GA/FP/042 was initiated on April 09, 2018 to probe the failure in assay for (b) (4) tablets USP (b) mg / (b) mg, Batch Nos. (b) (4) and (b) (4) in (b) (4) ((b) (4) %) and (b) (4) %) against a specification limit of (b) (4) % to (b) (4) %. The initial samples of batch (b) (4) (b) (4) prepared on April 06, 2018 were then reinjected, re-vialed and injected after re-dilution on April 09, 2018 without establishing system precision as part of hypothesis test. Based on passing result obtained from re-dilution, the root cause was identified as dilution error new sample was prepared on April 13, 2018. The results tabulated below do not substantiate the area response obtained for standard and sample during hypothesis and sample retest. Also, the impact of standard response on the assay result was not evaluated. Approximately vs fresh (b) (4) +4% bias was observed in the area response between the initial (b) (4) standard responses. However, the sample response for initial preparation and (b) (4) confirmatory

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DISTRICT ADDRESS AND PHONE NUMBER	DATE(S) OF INSPECTION
	01/28/2019-02/08/2019
ORA OPQO HQ, Room #2032	FEI NUMBER
12420 Parklawn Drive, Rockville, MD	
ORAPHARMInternational483responses@fd	a.hhs.gov
Industry Information: www.fda.gov/oc/industry NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED	
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	General Manager & Site Head - Manufacturing
FIRM NAME	STREET ADDRESS
Transita Timitani	B-15, Phase 1A, Verna Industrial Area
Lupin Limited	
city.state.zip.code.country Verna, Salcette, Goa - 403722, India	TYPE ESTABLISHMENT INSPÉCTEO Drug Product Manufacturer

with the firm's investigation.

	Initial	Hypothesis			Fresh		
Batch	Assay%	Reinject	Re-vial	Re-dilute	prepara	reparation	
(b) (4)	-						
Standard weight	(b) (4) ng		(b) (4) mg		. (0)(4)	ng	
Standard response	(b) (4)		(b) (4)		(b) (4)	(+4%)	
Sample weight Batch	(b) (4) ng		(b) (4) mg		(b) (4)	mg	
Sample response Batch	(b) (4)						
Sample weight Batch	(b) (4) mg		(b) (4) mg	3	(b) (4)	mg	
Sample response Batch	(b) (4)				i		

and (b) (4) were released to US market based on (b) (4) confirmatory test. These batches (b) (4)

b) OOS/C/17/GA/FP/144 was initiated on December 13, 2017 to probe the failure in unknown impurity ((b) (4) 6) at relative retention time (RRT) of (b) (4) for (b) (4) Capsules, (b) (a) ng batch (b) (4) against a specification limit of (b) (4) 6. On reinjecting the same initial vial as part of hypothesis study, no peak was observed at RRT (b) (4) however a new peak was observed at RRT (b) (4) (b)

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ORA OPQO HQ,	wn Drive, Rockville, MD 20857					
	ernational483responses@fda.hhs.qov		3004819820			
Industry Information: www.fda.gov/oc/industry						
TO CONTROL OF CASE AND AND THE STATE OF CASE AND						
Mr. Srinivas	Mr. Srinivas Rao Kalakuntla, Senior General Manager & Site Head - Manufacturing					
	a	STREET ADDRESS	see 17 Venne Indus	twist Auss		
Lupin Limited		TYPE ESTABLISHM	ase 1A, Verna Indus	CITAL ATEA		
	tte, Goa - 403722, India Drug Product Manufacturer					
		-				
impurity whereas ⁽¹ (b) (4) 3ar	impurity was assumed to be coming from peak for eluted at RRT beat (at RRT beat contamination attributing the failure to Analyst error whereas peak elutes at RRT beat contamination attributing the failure to Analyst error whereas sample preparation made on 5th March 2018 wherein no peak eluted at RRT but a peak at RRT beat contamination of the failure to Analyst error whereas sample preparation made on 5th March 2018 wherein no peak eluted at RRT but a peak at RRT beat contamination of the failure to Analyst error whereas to US market based on new but a peak at RRT beat contamination of the failure to Analyst error whereas beat contamination of the failure to Analyst error whereas beat contamination of the failure to Analyst error whereas beat contamination of the failure to Analyst error beat contamination of					
over the finithe finding, tablets out of meet the bate (b) (4)	(b) (a) ng, batch (b) (4) (Expiry July 2020) was found deficient. (b) (4) spots were observed over the finished drug product during the AQL check performed (b) (4) manual inspection. Based on the finding, the batch was manually inspected again, and all together separated 224957 defective tablets out of (b) (4) tablets. The (b) (4) batch yield inclusive of manufacturing loss (b) (4) (6) did not meet the batch record specification limit of (b) (4) to (b) (4) %. Your investigation concluded that the					
OBSERVATIO	N 2		*			
,						
There are no written procedures for production and process controls designed to assure that the drug products have the identity, strength, quality, and purity they purport or are represented to possess.						
Specifically,						
As per the approved batch records, the (b) (4) procedure is required to be continued (b) (4) without a discharge process of the (b) (4) However, during manufacturing, the (b) (4)						
is discharged into smaller bins (b) (4) procedure. Currently, the discharge process is						
documented in additional data entry pages which are not part of approved batch records. An evaluation of						
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DISTRICT ADDRESS AND PHONE NUMBER	DATE(S) OF INSPECTION		
	01/28/2019-02/0	08/2019	
ORA OPQO HQ, Room #2032	FEI NUMBÉR		
12420 Parklawn Drive, Rockville, MD 208 ORAPHARMInternational483responses@fda.h		3004819820	
Industry Information: www.fda.gov/oc/industry			
Mr. Srinivas Rao Kalakuntla, Senior Gen		Manufacturing	
FIRM NAME	STREET ADDRESS		
Lupin Limited	B-15, Phase 1A, Verna Ir	dustrial Area	
CITY, STATE, ZIP CODE, COUNTRY	TYPE ESTABLISHMENT INSPECTED		
Verna, Salcette, Goa - 403722, India	Drug Product Manufacture	er	

discharge process and the uniformity after discharging into bins has never been studied as part of the process validation. In addition, this procedure is performed without raising a deviation which is required as per SOP # CQA-003-06, entitled as "Handling of Deviations". This deviation from approved batch records were observed for the following products, but not limited to

	Product	Number of batches	Shipped to US market since
(b) (4)	Tablets USP,(b) ng	(b) (4)	February 2017
(b) (4)	Tablets USP, (b) (4) ng		February 2017
(b) (4)	Tablets USP, (b) ng		February 2012
	Tablets USP,(b) ng		April 2012
(b) (4)	Tablets USP,(b) (4) ng		March 2014
	Tablets USP, (b) (4) ng		March 2014
	Tablets USP, (b) (4) ng		March 2014
(b) (4)	Capsules, (b) (4) ng		December 2013

*DATES OF INSPECTION

1/28/2019(Mon), 1/29/2019(Tue), 1/30/2019(Wed), 1/31/2019(Thu), 2/1/2019(Fri), 2/4/2019(Mon), 2/5/2019(Tue), 2/6/2019(Wed), 2/7/2019 (Thu), 2/8/2019(Fri)

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