CENTER FOR DRUG EVALUATION AND RESEARCH

APPLICATION NUMBER:

200533Orig1s000

CHEMISTRY REVIEW(S)

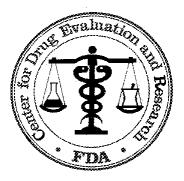
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MEMORANDUM: DEPARTMENT OF HEALTH AND HUMAN SERVICES PUBLIC HEALTH SERVICE FOOD AND DRUG ADMINISTRATION CENTER FOR DRUG EVALUATION AND RESEARCH

DATE: 25-OCT-2010

TO: N200533 File

- FROM: Craig M. Bertha, Ph.D. Chemistry Reviewer ONDQA, Division III, Branch VIII
- **THROUGH:** Prasad Peri, Ph.D. Acting Branch Chief ONDQA, Division III, Branch VIII



SUBJECT: Updated dissolution acceptance criteria proposed in the 18-OCT-2010, meeting briefing document

SUMMARY: The DAAP sent the applicant a complete response letter dated 01-OCT-2010, for the application. As a result of an evaluation of the IVIVC models and dissolution data, the biopharmaceutics team in ONDQA requested that the applicant revise the dissolution acceptance criteria for the drug product. The purpose of this memorandum is to outline the changes proposed for the drug product dissolution acceptance criteria and how these relate to the dissolution data that have been provided in the application for all strengths of the drug product.

The dissolution specification acceptance criteria that had been proposed in the original application and the newly proposed limits, to be applied to all strengths, are outlined in the table below.

Dissolution Acceptance	Criteria (Orig	inal) (% release)		
strength/time	30 min	180 min	360 min	600 min
50 mg				(b) (4)
100 mg				
150 mg				
200 mg				
250 mg				
Newly proposed limits				
(all strengths)				

Based on the 18 months of 25°C/60%RH stability data that have been provided thus far in the application for the drug product packaged in both the bottles and blisters, it is likely that the dissolution testing will routinely comply with the new acceptance criteria. The following table provides the minimum and maximum individual dissolution results that were observed for the 25°C/60%RH stored drug product in both packaging types.

Batch/strength/E	issTime										<u> </u>
08G01/50/30	08G07/50/30	08G24/50/30	08G01/50/180	08G07/50/180	08G24/50/180	08G01/50/360	08G07/50/360	08G24/50/360	08G01/50/600	08G07/50/600	08G24/50/600
											(
8G23/100/30	08G25/100/30	08G29/100/30	08G23/100/180	08G25/100/180	08G29/100/180	08G23/100/360	08G25/100/360	08G29/100/360	08G23/100/600	08G25/100/600	08G29/100/60
08G31/150/30	08H04/150/30	08H06150/30	08G31/150/180	08H04/150/180	08H06150/180	08G31/150/360	08H04/150/360	08H06150/360	08G31/150/600	08H04/150/600	08H06150/600
08H20/200/30	08H22/200/30	08H26/200/30	08H20/200/180	08H22/200/180	08H26/200/180	08H20/200/360	08H22/200/360	08H26/200/360	08H20/200/600	08H22/200/600	08H26/200/60
08G09/250/30	08G17/250/30	08G15/250/30	08G09/250/180	08G17/250/180	08G15/250/180	08G09/250/360	08G17/250/360	08G15/250/360	08G09/250/600	08G17/250/600	08G15/250/60
30 min			180 min			360 min			600 min		
									(b) (4)	
30 min			180 min			360 min				4)	

It is also noted that the revised acceptance criteria for the 180 and 360 minute dissolution timepoints are no longer (b) (4) i.e., the limit at which point the ICH Q6A guidance would recommend that appropriate bioavailability data be provided to validate the acceptance ranges.

RECOMMENDATION: From a quality control CMC perspective, there is no objection to the changes that have been made to the dissolution acceptance criteria. Ultimately, the final acceptance of the revised acceptance criteria will be dependent upon the evaluation of the biopharmaceutics team.

Craig M. Bertha, Ph.D. CMC Reviewer, ONDQA

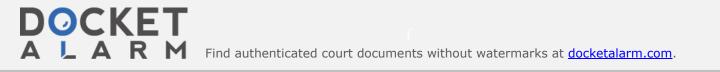
cc: OND/DAAP/DChiapperino ONDQA/DIV 3/CBertha/25-OCT-2010 ONDQA/DIV 3/PPeri ONDQA/DIV3/DChristodoulou ONDQA/SSuarez Sharp

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/s/

CRAIG M BERTHA 10/25/2010

PRASAD PERI 10/26/2010 I concur



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