ICH Q4B Expert Working Group

International Conference on Harmonisation of Technical Requirements for Registration of Pharmaceuticals for Human Use



Presentation Outline

- Short History and Overview of ICH Q4B
- The Pharmacopoeias and the Regulators
- The Q4B Process and Annex
- Interaction: Q4B Expert Working Group (EWG) and PDG
- November 2008 Meeting Outcomes and Current Activities for the Q4B EWG





- The harmonisation of specific compendial test chapters has been considered as critical by the ICH Steering Committee to attaining full utility of the ICH Q6A guideline (1998).
- Industry requested ICH SC to create an EWG to address how the regulatory authorities (3 regions) will recognise the interchangeability of harmonised pharmacopoeial chapters from Ph. Eur./JP/USP (PDG) – July 2003
- ICH SC established Q4 EWG with a scope to address 11 General Test Chapters discussed during development of ICH Q6A Guideline - November 2003
- SC approves Q4B Work Plan April 2004



Background (Continued)

- SC approves development of an ICH Guideline with topic specific annexes – June 2004
- Q4B EWG begins evaluating PDG harmonised text November 2004
- Step 2 ICH Q4B Core Guideline approved by SC June 2006
- 1st Annex (Residue on Ignition/Sulphated Ash) approved (ICH Step 2)
 June 2006
- Regulatory consultation (ICH Step 3) on Core Guideline completed by each regulatory region (60-day comment period) – October 2006



Background (Continued)

- Core Q4B Guideline reworked based on constituent comments; ICH Step 4 documents finalised for ICH signoff – November 2007
- Consist of "parent guideline" Step 4 Q4B ERPTUIR (new title)
- "Evaluation and Recommendation Pharmacopoeial Texts for Use in the ICH regions"
- First Annex No. 1 approved at Step 4 ROI/Sulphated Ash November 2007
- SC approves limited expansion of scope November 2008



ICH Q6A-related General Chapters

Dissolution Disintegration

*Uniformity of Content *Uniformity of Mass

Extractable Volume Particulate Matter

Sterility Microbiological Quality

Bacterial Endotoxins ROI/Sulphated Ash

Colour and Clarity

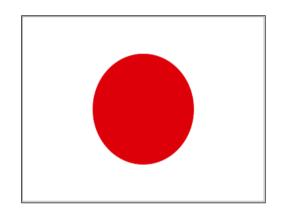
(per ICH SC, work will just be on "Colour")

Above chapters identified as the basis of Q4B activity

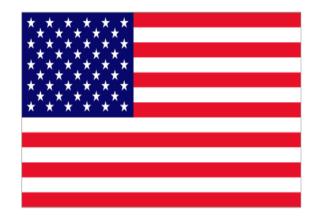


^{*} Combined to Uniformity of Dosage Units

The Pharmacopoeias and the Regulators Different Approaches for Moving Forward







JP (PMDA)

Governmental

Ph. Eur. (EDQM)

Governmental Partnership

USP

Independent of Government

Not for profit organisation

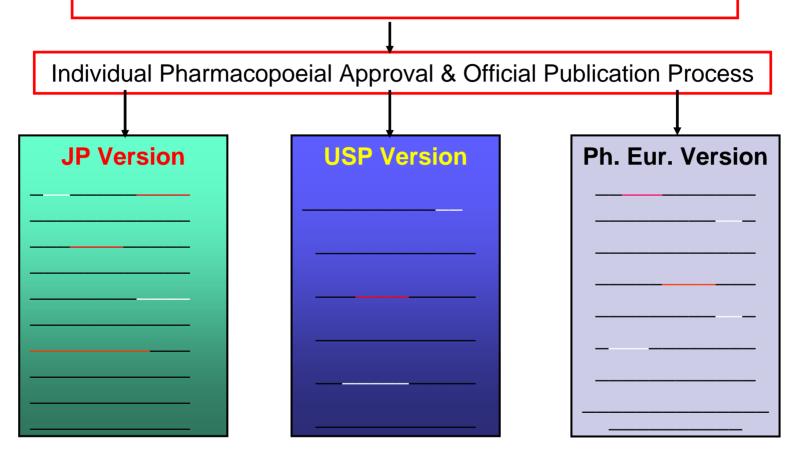


The Q4B Process Value of the Q4B Activity

- A component of international harmonisation efforts to assist in common specifications
- A savings in time, effort and cost
 - Industry: to globally unify testing strategies [for applications and other regulatory (compliance) needs] one test rather than three
 - Regulators: to reduce or eliminate the need to go through a justification procedure as to the use of other compendial methods (done one time to eliminate repetitive justifications)



PDG Process Results in Harmonised Text



Challenge to regulators: Do differences impact on the ability to achieve a result with the same accept and reject capability? Are they interchangeable?



Q4B Process Steps

FOR EACH TOPIC:

- PDG provides to Q4B Expert Working Group:
 - PDG-harmonised text
 - □ JP/Ph. Eur./USP draft versions of how harmonised text will be implemented in their compendia
 - Briefing note to delineate any local differences or potential issues
 - Printing timelines to move approved pharmacopoeial text to official status
- Q4B member parties bring the documents back to their constituents for independent evaluation

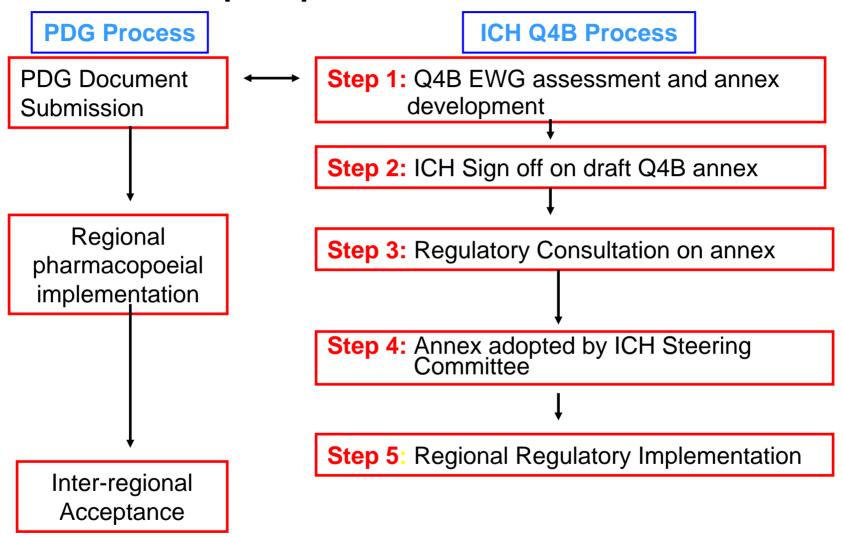


Q4B Process (continued)

- Q4B EWG reviews the evaluations
- Issues discussed within Q4B EWG for possible resolution
- Evaluation results and possible resolution mechanisms conveyed back to and/or discussed with PDG
- Once issues are resolved, Q4B EWG recommends approval (ICH Step 2) to the ICH SC
- Start of Annex process Moving the Q4B evaluation outcome into the regulatory mechanisms for each region



Topic Specific Annex Process





Q4B EWG and PDG Interaction

- Dedicated time (set aside) at each formal ICH EWG meeting venue to discuss issues
- Stakeholder partnering all parties focused to achieve interchangeability
- Direct feedback mechanisms to resolve issues
- Clear delineation of what steps are necessary for problem resolution
- Success more likely versus single, independent efforts



Q4B Successes -- November 2007 Yokohama Primary objectives achieved:

- Core Q4B Guideline (establishing Q4B Process)
 Completed and signed off at ICH Step 4 -- Step 5 Regional Implementation
- Title for the Q4B Core Q4B Guideline

 The Evaluation and Recommendation

 of

 Pharmacopoeial Texts for Use in the ICH Regions
- First Annex No.1 ROI/Sulphated Ash completed at Step 4



Current Status – Q4B EWG ICH November 2008, Brussels

Step 2 documents moved to Step 4 sign-off and Step 5 Regional Implementation:

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(Annexes 4A, 4B, 4C)
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(Annex 5 – completed but hold for sign-off)

- Additional annexes moved to Step 2 sign-off:
 - Annex 6 UDU
 - Annex 7 Dissolution Test
 - Annex 8 Sterility Test



Limited Scope Expansion ICH November 2008, Brussels

Steering Committee approved addition of 5 new PDG-harmonised general chapters to the Q4B process:

- 1. Tablet Friability
- 2. Bulk and tapped density
- 3. Analytical Sieving
- 4. Capillary Electrophoresis
- 5. PAGE



Current Status — Q4B EWG ICH November 2008 Meeting, Brussels, Belgium

Completed Annexes to the Core Q4B Guideline

■#1 Residue on Ignition/Sulphated Ash

Step 5 Regional Implementation

■#2 Extractable Volume

Step 5 Regional Implementation

■#3 Particulate Matter

Step 5 Regional Implementation

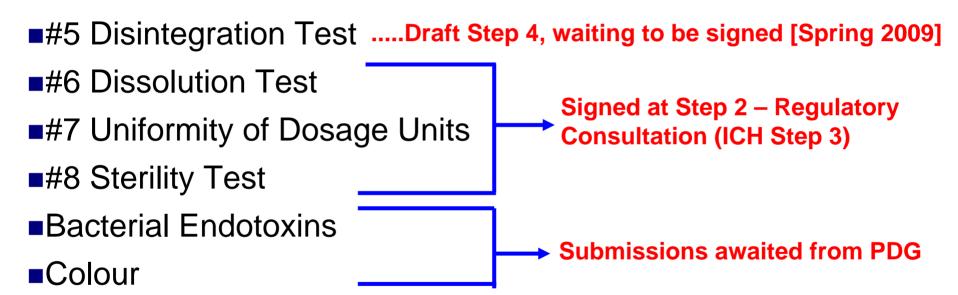
■#4A, 4B, 4C Microbiological Tests

Step 5 Regional Implementation



Current Status 2009 (continued)

Work in Progress





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Current Members of the ICH Q4B EWG

Cindy Buhse (FDA)

Nick Cappuccino (IGPA)

Jon Clark (FDA)

Gérard Damien (EFPIA)

Martine Draguet (EFPIA)

Nobukazu Igoshi (JPMA)

Robert King (FDA)

Sabine Kopp (WHO)

Carmen de la Morena-Criado (EU)

Osamu Morita (MHLW)

J.M. Morris (EU)

Tsuneo Okubo (JPMA)

Stéphanie Parra (Health Canada)

Janos Pogany (WHO)

Hideki Sasaki (JPMA)

Janeen Skutnik (PhRMA)

Koumei Shimokawa (MHLW)

Toyashige Tanabe (JPMA)

Kiyomi Ueno (MHLW)

Petar Vojvodic (WSMI)

Kiyoshi Washida (JPMA)

J. Mark Wiggins (PhRMA)

