

---

# **Guidance for Industry**

## **Q4B Evaluation and Recommendation of Pharmacopoeial Texts for Use in the ICH Regions**

### **Annex 2 Test for Extractable Volume of Parenteral Preparations General Chapter**

**U.S. Department of Health and Human Services  
Food and Drug Administration  
Center for Drug Evaluation and Research (CDER)  
Center for Biologics Evaluation and Research (CBER)**

**January 2009  
ICH**

---

*FDA-2008-D-0081*

*GDL*

# **Guidance for Industry**

## **Q4B Evaluation and Recommendation of Pharmacopoeial Texts for Use in the ICH Regions**

### **Annex 2 Test for Extractable Volume of Parenteral Preparations General Chapter**

*Additional copies are available from:*

*Office of Training and Communication  
Division of Drug Information  
Center for Drug Evaluation and Research  
Food and Drug Administration  
10903 New Hampshire Ave.  
Bldg. 51, Room 2201  
Silver Spring, MD 20993-0002  
(Tel) 301-796-3400  
<http://www.fda.gov/cder/guidance/index.htm>*

or

*Office of Communication, Training and  
Manufacturers Assistance, HFM-40  
Center for Biologics Evaluation and Research  
Food and Drug Administration  
1401 Rockville Pike, Rockville, MD 20852-1448  
<http://www.fda.gov/cber/guidelines.htm>*

**U.S. Department of Health and Human Services  
Food and Drug Administration  
Center for Drug Evaluation and Research (CDER)  
Center for Biologics Evaluation and Research (CBER)**

**January 2009  
ICH**

## TABLE OF CONTENTS

<b>I.</b>	<b>INTRODUCTION (1)</b> .....	<b>1</b>
<b>II.</b>	<b>Q4B OUTCOME (2)</b> .....	<b>2</b>
<b>A.</b>	<b>Analytical Procedures (2.1)</b> .....	<b>2</b>
<b>B.</b>	<b>Acceptance Criteria (2.2)</b> .....	<b>2</b>
<b>III.</b>	<b>TIMING OF ANNEX IMPLEMENTATION (3)</b> .....	<b>2</b>
<b>IV.</b>	<b>CONSIDERATIONS FOR IMPLEMENTATION (4)</b> .....	<b>2</b>
<b>A.</b>	<b>General Consideration (4.1)</b> .....	<b>2</b>
<b>B.</b>	<b>FDA Consideration (4.2)</b> .....	<b>2</b>
<b>C.</b>	<b>EU Consideration (4.3)</b> .....	<b>3</b>
<b>D.</b>	<b>MHLW Consideration (4.4)</b> .....	<b>3</b>
<b>V.</b>	<b>REFERENCES USED FOR THE Q4B EVALUATION (5)</b> .....	<b>3</b>

*Contains Nonbinding Recommendations*

**Guidance for Industry<sup>1</sup>**  
**Q4B Evaluation and Recommendation of Pharmacopoeial Texts**  
**for Use in the ICH Regions**

**Annex 2**  
**Test for Extractable Volume of Parenteral Preparations**  
**General Chapter**

This guidance represents the Food and Drug Administration's (FDA's) current thinking on this topic. It does not create or confer any rights for or on any person and does not operate to bind FDA or the public. You can use an alternative approach if the approach satisfies the requirements of the applicable statutes and regulations. If you want to discuss an alternative approach, contact the FDA staff responsible for implementing this guidance. If you cannot identify the appropriate FDA staff, call the appropriate number listed on the title page of this guidance.

**I. INTRODUCTION (1)<sup>2</sup>**

This annex is one in a series of guidance documents that describe the evaluations and recommendations by the Q4B Expert Working Group (EWG) of selected pharmacopoeial texts to facilitate their recognition by regulatory authorities for use as interchangeable in the ICH regions. Implementation of the Q4B annexes is intended to avoid redundant testing by industry. For general information on the Q4B process, the reader is referred to the core guidance *Q4B Evaluation and Recommendation of Pharmacopoeial Texts for Use in the ICH Regions*.<sup>3</sup>

This annex is the result of the Q4B process for the Test for Extractable Volume of Parenteral Preparations General Chapter. The proposed texts were submitted by the Pharmacopoeial Discussion Group (PDG).

---

<sup>1</sup> This guidance was developed within the Expert Working Group (Quality) of the International Conference on Harmonisation of Technical Requirements for Registration of Pharmaceuticals for Human Use (ICH) and has been subject to consultation by the regulatory parties, in accordance with the ICH process. This document has been endorsed by the ICH Steering Committee at *Step 4* of the ICH process, June 2008. At *Step 4* of the process, the final draft is recommended for adoption to the regulatory bodies of the European Union, Japan, and the United States.

<sup>2</sup> Arabic numbers reflect the organizational breakdown of the document endorsed by the ICH Steering Committee at Step 4 of the ICH process, June 2008.

<sup>3</sup> We update guidances periodically. To make sure you have the most recent version of a guidance, check the CDER guidance page at <http://www.fda.gov/cder/guidance/index.htm> or the CBER guidance page at <http://www.fda.gov/cber/guidelines.htm>.

## ***Contains Nonbinding Recommendations***

FDA's guidance documents, including this guidance, do not establish legally enforceable responsibilities. Instead, guidances describe the Agency's current thinking on a topic and should be viewed only as recommendations, unless specific regulatory or statutory requirements are cited. The use of the word *should* in Agency guidances means that something is suggested or recommended, but not required.

### **II. Q4B OUTCOME (2)**

#### **A. Analytical Procedures (2.1)**

The ICH Steering Committee, based on the evaluation by the Q4B Expert Working Group (EWG), recommends that the official pharmacopoeial texts, Ph. Eur. 2.9.17. Test for Extractable Volume of Parenteral Preparations, JP 6.05 Test for Extractable Volume of Parenteral Preparations, and the section in USP <1> *Injections* General Chapter entitled "Volume in Containers," can be used as interchangeable in the ICH regions.

#### **B. Acceptance Criteria (2.2)**

The acceptance criteria are the same in the three pharmacopoeias.

### **III. TIMING OF ANNEX IMPLEMENTATION (3)**

When this annex has been implemented (incorporated into the regulatory process at ICH Step 5) in a region, it can be used in that region. Timing might differ for each region.

### **IV. CONSIDERATIONS FOR IMPLEMENTATION (4)**

#### **A. General Consideration (4.1)**

When sponsors or manufacturers change their existing methods to the implemented Q4B-evaluated pharmacopoeial texts that are referenced in section II.A (2.1) of this annex, any change notification, variation, and/or prior approval procedures should be handled in accordance with established regional regulatory mechanisms pertaining to compendial changes.

#### **B. FDA Consideration (4.2)**

Based on the recommendation above, and with reference to the conditions set forth in this annex, the pharmacopoeial texts referenced in section II.A (2.1) of this annex can be considered interchangeable. However, FDA might request that a company demonstrate that the chosen method is acceptable and suitable for a specific material or product, irrespective of the origin of the method.

## *Contains Nonbinding Recommendations*

### **C. EU Consideration (4.3)**

For the European Union, the monographs of the Ph. Eur. have mandatory applicability. Regulatory authorities can accept the reference in a marketing authorization application, renewal or variation application citing the use of the corresponding text from another pharmacopoeia as referenced in section II.A (2.1), in accordance with the conditions set out in this annex, as fulfilling the requirements for compliance with the Ph. Eur. Chapter, Test for Extractable Volume of Parenteral Preparations: 2.9.17., on the basis of the declaration of interchangeability made above.

### **D. MHLW Consideration (4.4)**

The pharmacopoeial texts referenced in section II.A (2.1) of this annex can be used as interchangeable in accordance with the conditions set out in this annex. Details of implementation requirements will be provided in the notification by MHLW when this annex is implemented.

## **V. REFERENCES USED FOR THE Q4B EVALUATION (5)**

**A. (5.1)** The PDG Stage 5B sign-off document: *Japanese Pharmacopoeial Forum*, Volume 13, Number 3 (August 2004).

**B. (5.2)** The pharmacopoeial references for Test for Extractable Volume of Parenteral Preparations for this annex are:

1. (5.2.1) *European Pharmacopoeia* (Ph. Eur.): Supplement 5.3 (official on January 2006), Test for Extractable Volume of Parenteral Preparations (reference 01/2006:20917).

2. (5.2.2) *Japanese Pharmacopoeia* (JP): 6.05 Test for Extractable Volume of Parenteral Preparations as it appears in the JP Fifteenth Edition (March 31, 2006, The Ministry of Health, Labour and Welfare Ministerial Notification No. 285).

3. (5.2.3) *United States Pharmacopeia* (USP): official text published in the Revision Bulletin issued November 14, 2006, and as appeared in USP 30, 2<sup>nd</sup> Supplement, official December 1, 2007. The official text is incorporated in <1> Injections General Chapter as the section entitled "Volume in Containers."