

ICS 13.300
CCS A 80



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 44706-2024

Chemicals-Sediment-water corbicula fluminea toxicity test

化学品 沉积物-水系统中河蚬毒性试验

Issued on: October 26, 2024

Implemented on: May 1, 2025

**Issued by: State Administration for Market Regulation;
Standardization Administration of the PRC**

Table of Contents

Preface... III 1 Scope	1
2 Normative references	1
3 Terms and Definitions	1
4 Test Principle	2
5 Test substance information	2
6 Test System	2
7 Instruments and Equipment	3
8 Test Procedure	3
9 Quality Assurance and Quality Control	5
10 Data and Reports	5
Appendix A (Informative) Biological Characteristics of Clams	7
Appendix B (Normative) Chemical Characteristics of Test Water	8
Appendix C (Informative) Composition of Prepared Sediment	9
References	10

Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting is required.

Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents.

This document is proposed and coordinated by the National Technical Committee for Standardization of Hazardous Chemicals Management (SAC/TC 251).

This document was drafted by: Chinese Research Academy of Environmental Sciences, Nankai University, China Inspection and Testing (Tianjin) Co., Ltd., Chinese Academy of Inspection and Quarantine, Nanchang University, Ocean University of China, and Nanjing University.

The main drafters of this document are: Liu Zhengtao, Li Ji, Zhu Lingyan, Zhang Yanfeng, Yan Zhenguang, Wang Xiaonan, Chen Huiming, Zhou Lili, Ge Gang, Li Zhengyan, Wang Shanghong, Li Mei, Wang Zunyao, Sun Cheng, Zheng Xin, Zhang Mingming, and Wu Di.

Chemical Sediment ? Clam Toxicity in Water Systems test

1 Scope

This document specifies the test principle, test substance information, test system, instrument design, and other aspects of the toxicity test for *Clamaria fluvial* in chemical sediment-water systems.

Equipment, test procedures, quality assurance and quality control, data and reporting.

This document applies to the testing of toxic effects of chemicals on Clams in freshwater sediments.

2 Normative references

GB 17378.5

3 Terms and Definitions

For the purposes of this document, the terms and definitions defined in HJ 1257 and the following apply.

3.1 formulated sediment

A mixture of various materials used to simulate the composition of surface sediments in natural water bodies.

3.2 Spiked sediment

Sediment to which the test substance was added.

3.3 overlying water

The water that covers the sediment in the test container.

3.4 interstitial water or pore water

Water that occupies space within sediment or soil particles.

3.5 Median lethal concentration; LC50

The concentration of the test substance that causes half of the test organisms to die.

3.6 Median effect concentration; EC50

The concentration of a test substance that causes a certain biological effect in half of the test organisms.