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

GB/T 21854-2025

Replacing GB/T 21854-2008

Chemicals - Fish early-life stage toxicity test

化学品 鱼类早期生活阶段毒性试验

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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.

This document replaces GB/T 21854-2008 "Chemicals - Toxicity to Early Life Stages of Fish" and is consistent with GB/T 21854-2008.

In addition to structural adjustments and editorial changes, the main technical changes are as follows.

- Added the terms and definitions of "harpoon length", "standard length of fish", "full length of fish", "effect concentration" and "unknown complex substance" (see 3.1~3.4, 3.7);
- Changed the test substance information content (see Chapter 4, Chapter 3 of the 2008

edition);

- Changed the test principle (see Chapter 5, 4.1 of the 2008 edition);
- Changed the instrumentation (see Chapter 6, Chapter 5 of the 2008 edition);
- Changed the test preparation and test procedures (see Chapters 7 and 8, Chapters 6 and 7 of the 2008 edition);
- Modified quality assurance and quality control (see Chapter 9, Chapter 8 of the 2008 edition);
- Changed data and reporting (see Chapter 10, Chapter 9 of the 2008 edition).

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/TC251).

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The previous versions of this document and the documents it replaces are as follows.

- First published in 2008 as GB/T 21854-2008;
- This is the first revision.

1 Scope

This document specifies the test substance information, instrumentation, test system, test procedures, quality control, and other related information for the early life stage toxicity test of chemicals in fish.

Quality assurance and quality control, data and reporting requirements.

This document is applicable to the testing of chemicals for lethal and sublethal effects on early life stages of fish to evaluate chronic toxicity and Subchronic toxic effects.

2 Normative references

This document has no normative references.

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 fishforklength;FFL

The straight-line distance from the tip of the snout to the end of the mid-tail fin line is used to measure the body length of fish in which the end of the vertebral column is difficult to distinguish.

3.2 fish standard length fishstandardlength;FSL

The straight-line distance from the tip of the snout to the end of the last vertebra at the base of the caudal fin or to the base of the caudal fin, excluding the length of the caudal fin.

3.3 Fish total length; FTL

The straight-line distance from the tip of the snout to the end of the longer lobe of the caudal fin.

3.4 effect concentration;ECx

The concentration of the test substance that causes a certain observed effect in x% of the test organisms compared with the control organisms during a given test period. [Source. HJ1257-2022, 2.1.33]

3.5 [Source. HJ1257-2022, February 1, 38]

The lowest concentration of a substance that produces a statistically significant effect (p less than 0.05) on the test organism compared with the control group within a given test period Test substance concentration.

3.6 [Source. HJ1257-2022, February 1, 39]

No statistically significant effect (p greater than or equal to 0.000) was observed on the test organisms compared to the control group within a given test period.

0.05) of the highest test substance concentration.